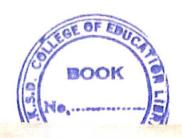


13/6



150 75

N.V.K.S.D. COLLEGE OF EDUCATION ATTOOR

LIBRARY DATE SLIP D6, 8 (B)

Acc. No 15075	CI. No. P634
7100.110	OI. INO

This Book should be returned on or before the last date marked below

	0	
	=	
		**
		-
	1,000	
,		
		î
		**



1

COMPUTER FUNDAMENTALS

Definition

"A computer is an electronic device that accepts input data, manipulates the data and produces the output"

"A device that computes, especially a programmable electronic machine that performs high-speed mathematical or logical operations or that assembles, stores, correlates, or otherwise processes information"

A Computer is an electronic device that performs calculations in tremendous speed and gives the result in a matter of seconds. Computer accepts input through the input devices and gives output through the output devices.

Input

The data that we give to the computer for processing is called input.

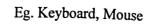
Input devices

The devices through which we give input to the computer are called input devices.

D6,8(B)/P6:4

VKSD COL 15075





Book Bank Issue H



Mouse

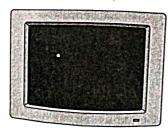
Output

The processed data that we get from the computer is called output.

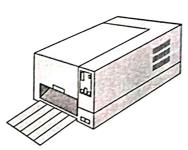
Output devices

The devices through which we get output from the computer are called output devices.

Eg. Monitor, Printer



Monitor



Printer

CPU

The CPU or Central Processing Unit is the brain of the computer. It does all processing and arithmetic calculations in a computer.

Hardware

Hardware refers to the physical components of the computer like the monitor, keyboard, mouse, etc.

Software

Software refers to the programs in the computer that tells the computer to perform particular tasks. Examples of software are Microsoft Word, Microsoft Excel, etc.

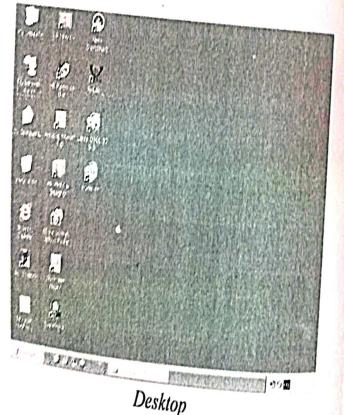
Operating System

The Operating System (OS) is the program who controls all other programs in a computer. It is the first program

Eg. Windows, DOS, UNIX

Desktop

The opening screen of the Windows operating systemis called the Desktop. The Desktop contains the icons and the taskbar. The icons are the small graphical representations of the programs installed in the computer.



Taskbar

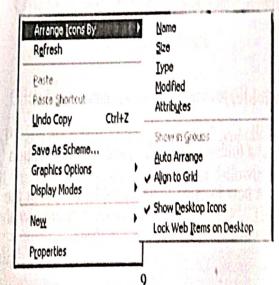
installed in a computer. Only after the installation of OS, of and the tray icons and time at the right side. The middle programs.



Taskbar

Arranging icons

To arrange icons on the desktop, right click and select the option 'Arrange icons by'. We can arrange the icons in order of their name, size, type or modified date. The option 'Auto arrange' automatically arranges the icons in order, if the order of any icon is disturbed.



dank Issue Register Vol.4 - negister Vol.3 104

Working with Folders

Creating a folder

A folder is a place where we store files or other folden

Right click (on the desktop or inside any folder in the explorer) and select the option 'New' and then 'Folder'

Renaming a folder

Select a folder, right click it, and select the option 'Rename'. Type in a new name for the folder.

Copying a folder

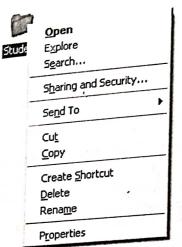
Select a folder, right click it, and select the option 'Copy' Navigate to a new location (another folder or within the same folder), right click and select the option 'Paste'.

Moving a folder

Select a folder, right click it, and select the option 'Cut'. Navigate to a new location (another folder or within the same folder), right click and select the option Paste.

Deleting a folder

Select a folder, right click it, and select the option 'Delete'. A confirmation dialogue box appears. Select 'Yes' to delete the file.



Opening a number of programs and arranging them

Click Start menu, point to programs(All programs for Win XP), and open four or five programs. Right click an empty area of the taskbar and select any of the following options: 'Cascade windows', 'Tile windows horizontally', 'Tile windows vertically'. 11

Switching over among three states

The minimize, maximize and restore buttons are present at the right side of the title bar of a window.

Minimize

Click the minimize button of the active window. The window gets reduced to an icon and is displayed on the taskbar.

Maximize

Click the maximize button of the active window. The window gets maximised and it fills the screen.

If the window is in the minimized state, clicking its icon on the taskbar will maximize/restore its state.

Restore

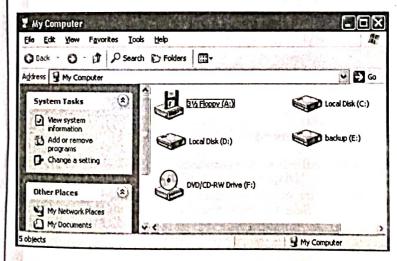
If the window is in the maximized state, a Restore button will be displayed in the place of the maximize button. Clicking the Restore button will restore the window.



Minimize, Maximise & Restore buttons

My Computer

The My Computer displays all the available drives. Floppy Disk Drive (FDD), Hard Disc Drive (HDD) and Compact Disc Drive (CDD) and a few system folders. It provides easy access to each drive in the computer. To open My Computer, double click the 'My Computer icon' on the desktop.



Recycle Bin

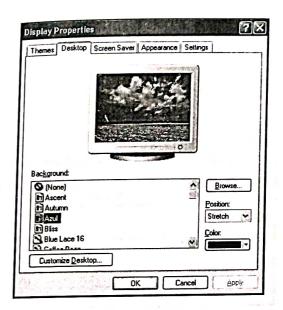
The Recycle Bin is a system folder where all the deleted files are stored. It is like a waste box. The files can be permanently deleted from the Recycle Bin by selecting the files and choosing 'Delete'. To open Recycle Bin, double click the Recycle Bin icon on the desktop.

Changing Display settings

Click Start menu, Settings->Control Panel (direct access in Win. XP). In the Control panel double click the icon 'Display'.

Change background

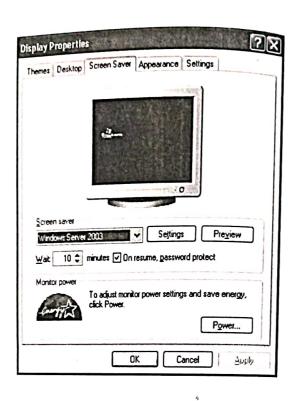
In the 'Disp'ny properties' dialogue box, select the Desktop tab. Select a background picture from the list. Click 'Apply' to apply the background picture.



Changing background

Changing screensaver

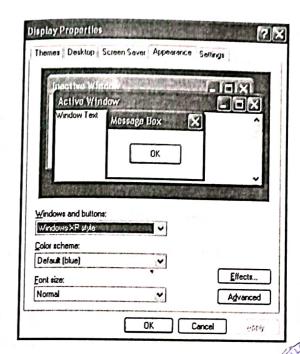
In the 'Display properties' dialogue box select the Screensaver tab. Select a screensaver from the list. Select any options by clicking the settings button to customize the screensaver. Click 'Apply' to apply the screensaver.



Changing screensaver

Appearence

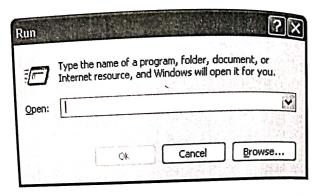
The appearence tab of the Display properties dialogue box is used to change the appearance(Color, font, etc) of the screen elements like desktop, menu, icons, etc. To change the appearance of the individual elements, click the Advanced button (in Win XP) and select the individual element and apply the change.



Run option

The Run option is used to run a program from the Start menu itself. This option can be used to run programs that are not listed in the Programs menu.

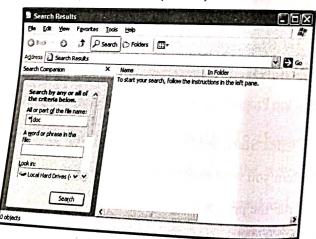
Click **Start**, and then click **Run**. In **Open**, type the path to the item you want to open, or click **Browse** to locate it. Click **OK** to run the program.



Search option

The Search option is used to find any files or folders in the system or over the network.

Click Start, and then click Search (for Win XP) or Find (for Win 98). Click All files and folders. Type in the name of part of the name of the file/folder you are searching for. Click Search (Win XP) or Find now (Win 98).

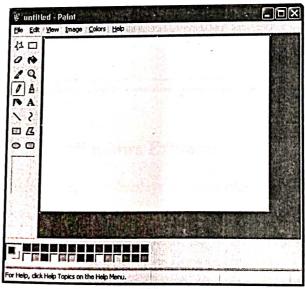


Paint

Paint is a drawing tool you can use to create black-and-white or color drawings that you can save as bitmap (.bmp) files. To open Paint, click Start, point to All Programs, point to Accessories, and then click Paint.

The Paint window contains the menu bar, toolbox (that lists the tools used for drawing), colour box,(to select colour) etc.

The toolbox contains the following tools -> free form select, select, eraser, fill with colour, pick colour, magnifier, pencil, brush, airbrush, text, line, curve, rectangle, polygon, ellipse and rounded rectangle.

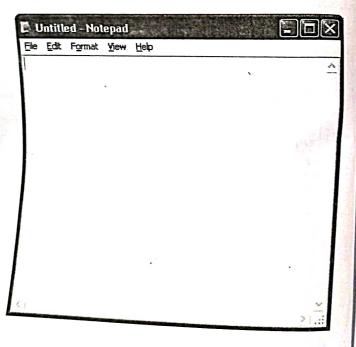


Notepad

Notepad is a basic text editor we can use for simple numents or for creating Web pages.

To open Notepad, click Start, point to All Program, int to Accessories, and then click Notepad.

We can type the required information in the notepolion randow and save it using the option File - Save.

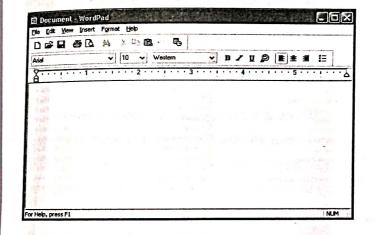


Wordpad

OTV

We can use Wordpad to create or edit text files that contain formatting or graphics.

To open Wordpad, click Start, point to All Programs, point to Accessories, and then click Wordpad.

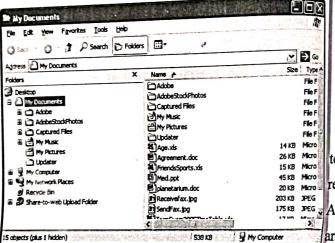


Windows Explorer

Windows Explorer displays the hierarchical structure of files, folders, and drives on our computer. Using Windows Explorer, we can copy, move, rename, and search for files and folders. There are two panes in Windows Explorer. The left pane

shows the tree structure of all the drives and folders. The η_{gh} pane shows the listing of all the files of the folder/drive sel_{ecl_Q} in the left pane.

To open Windows Explorer, click Start, point to All Programs, point to Accessories, and then click Windows Explorer.





2

RII

MICROSOFT WORD

A word processor is a computer program that enables us to create, edit, print, and save documents for future retrieval and revision. We enter text into the computer by using a keyboard. As we type, our words are displayed on a monitor, or screen, and are stored temporarily in the computer memory as we are creating the document rather than on paper.

One of the chief advantages over a conventional typewriter is that a word processor enables us to make changes to a document without retyping the entire document. For example, we can create a letter in a word processor and then, after we finish, we can go back and change margins, add sentences, delete

words, move paragraphs, correct spelling errors and so on, w can do all these without retyping the original text.

Stock Register

cra RIZ

Microsoft Word

Microsoft Word is a powerful processor designed to ha us create letters, memos, reports, other documents in varion fonds. We can produce any document quickly and easily. windows philosophy is to always use a mouse when working Toolbars, ribons and other menus allow us to work intutively

The checking tools in Word help us produce high-qualland documents. We can correct spelling error, check document grammar and style, vary our choice of words (Thesaurus). We provides several different ways of viewing and layouts documents before we print it.

FOOTERS and all margins.

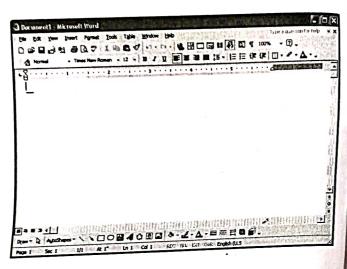
create graphics for our documents using Microsoft Draw. We can create graphs / charts with Microsoft charts.

Some of the points to remember in word are:

- Start a fresh document
- Edit the document
- Select the required text before applying formats
- Set page setup options before starting any editing
- Save the document before printing.

Identification of various screen elements

The top most portion of the MS Word window contains the Title bar which displays the title of the current document. The page layout view allows us to preview how the page layout view allows the page layout view a we are actually working with will look: it shows HEADERS a various menus (File, Edit, etc) to work with the document. The toolbar is present below the menu bar. The toolbar contains picturous representation of the commands present in the menu Word also has several more powerful tools to make of bar. The white area below the title bar is the document window laily work with documents much easier than in the past. We cawhere we create the document. The status bar is present below the document window.



Opening as new document

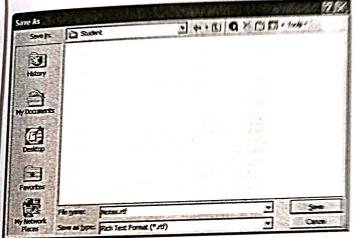
To open a new document, click the File Menu and select the option New.

Opening an existing file

To open an existing file, click the File Menu and select the option Open. From the dialogue box that appears, locate Setting up the page using l'age setup communate file and click Open button.

Saving a file

On the File menu, click Save. In the l'ile name bent, enter new name for the file. Click Save.



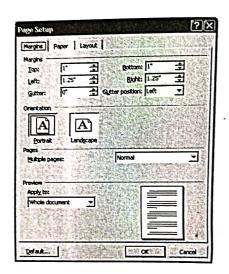
Using the Save As command

The Save As command is used to save a cryp or a site.

On the File menu, click Save As, In the 14th mann And enter a new name for the file, Click Have,

The Page Setup option is used to setup a page five printing. In the Pays Setup dialogue how we can wrom the Pays margins, Paper size(Letter, Legal, A4 etc), Orientation (Portrait or landscape), etc.

To setup a page, On the File menu, click Page Setun



Using Print Preview command

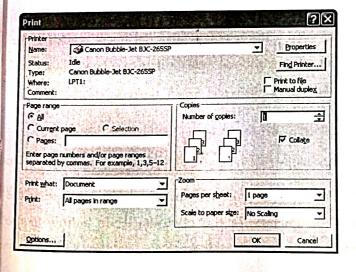
The Print Preview command is used to preview a page before printing.

On the File menu, click **Print Preview**. Use the button on the toolbar to look over the page or make adjustments befor printing.

Using the Print command on the File menu and Toolbar

You can print the active document by selecting **Print** command on the File menu or by clicking **Print** on the Standard toolbar.

In the Print dialogue box, you can specify the options like the name of the printer, number of copies to print, number of pages to print, etc.



RIO

Moving contents to and from a document using the Cut command

Select the item you want to move.

To move the item, click Cut on the Standard toolbar you want to move the item to another document, switch to the document. Click where you want the item to appear. Click Past on the Standard toolbar.

Copying contents to and from a document

Select the item you want to copy.

To copy the item, click Copy on the Standard toolbar press the key combination Ctrl-Enter. you want to copy the item to another document, switch to # document. Click where you want the item to appear. Click Pas on the Standard toolbar.

Usage of Undo command

You can undo the very last action you did using th Standard toolbar.

Hiding and displaying the Ruler and Status bar

To display or hide the Ruler, select the option View-Ruler. To display or hide the Status bar, select the option View- Status bar.

Inserting Page Breaks

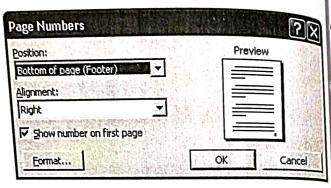
To insert a page break, use the option Insert-Break or

The Page Break draws the boundary between two pages.

Inserting Page Numbers

On the Insert menu, click Page Numbers. In the Position box, specify whether to print page numbers in the header at the top of the page or in the footer at the bottom of the page. In the 'Undo' command. For this click the Undo button on the Alignment box, specify whether to align page numbers left, center, or right relative to the left and right margins.





Insert pictures in a document

To insert pictures in a document, use the opti Changing the font style and underlining Insert-Picture-Clipart.

Drawing toolbar

The drawing toolbar contains tools used for drawing. Changing the font color tools include circle, rectangle, line, text boxes, autoshapes et



Changing the font, font size, font style and for color of the text



Changing the font

Select the text you want to change. On the Formatting toolbar, click a font name in the Font box.

Changing the font size

Select the text you want to change. On the Formatting toolbar, type or click a point size in the Font Size box.

Select the text you want to change. On the Formatting toolbar, click Bold, Italic or Underline.

Select the text you want to change.

To apply the color most recently used for text, click Font Color on the Formatting toolbar.

To apply a different color, click the arrow next to the ont Color button, and then select the color you want and click

Formatting the line spacing and indendation the paragraph

Changing line spacing

Select the text you want to change line spacing. O_{n_1} Format menu, click Paragraph. Under Line Spacing section enter the spacing you want.

Indendation of paragraph

Indendation is the distance between the margin and body of the text.

Select the paragraph you want to indent. On the horizontal ruler, drag the First Line Indent, Left Indent, Right Indent or Hanging Indent marker to the position to apply a Filling Indent, Left Indent, Right Indent or Hanging Inderespectively.

You can also set the indendation using the Form Paragraph option.

Applying Bullets and Numbering

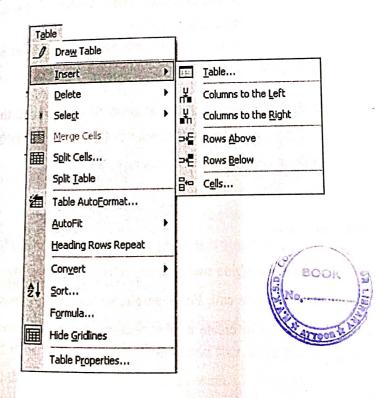
Select the items you want to add bullets or numbering to.

On the Formatting toolbar, click **Bullets** or **Numbering**.

Working with tables

inserting tables

RIO



A table is made up of rows and columns of cells that vo can fill in with text and graphics. Tables are often used telick Merge Cells. organize and present information.

Click where you want to create a table. Click Insert Tabl columns you want. (OR)

Click where you want to create a table. On the Tab menu, point to Insert, and then click Table. Under Table size select the number of columns and rows.

Adding rows and columns

Select the same number of rows or columns as the number of rows or columns you want to insert. On the Tab Altering height of a row and width of a column menu, point to Insert, and then click an option.

Merging cells

We can combine two or more cells in the same row Changing column width column into a single cell. For example, we can merge sever cells horizontally to create a table heading that spans sever columns

Select the cells you want to merge. On the Table menu,

Splitting cells

Click in a cell you want to split. On the Table menu, click on the Standard toolbar. Drag to select the number of rows an Split Cells. Select the number of columns or rows you want to split. The selected cell will split.

Select the cells, rows, or columns you want to delete. On the Table menu, point to **Delete**, and then click either **Columns**, Rows, or Cells.

Changing row height

Rest the pointer on the row boundary you want to move until it becomes resize pointer, and then drag the boundary.

Rest the pointer on the column boundary you want to move until it becomes a resize pointer, and then drag the boundary until the column is in the width you want.

Creation of Autotext

Mail Merge

How to create an autotext:

Step 1 : Type a format

Step 2 : Highlight the typed text and Clictep 1:

Insert > Autotext > Autotext

Step 3 : Ther type a name for the format arStep 3: You'll get a message box as below:

click AL

How to place the autotext entry or the toolbar:

Step 1 : Click Tools ➤ Customize

Step 2 : Click Commands tab.

Step 3 : Scroll through the categories box to fin

out the Autotext

Step 4: Scroll through the corresponding

commands of Autotext menu in th

commands box.

Step 5 : Highlight your entry and drag it to th

toolbar and click Close.

Creating Mail Merge Documents

Go to Tools ➤ Mail Merge

ten 2 : Click Create > Form Letters

To create from letters, you can use the active document window <filename> or a new document window

Active document window New Document window

Select Active document window if you are in a blank document or New document window if you have not opened a blank document.

Step 4 : Click Data Source ➤ Create Data Source....

Now you are going to create an Address Format. In the Create Data Source dialog box, you will find a set of default filed names for your address format, you want to have your own field names, you caremove some or all of the default field names by a lecting the field names in the 'Field Names in the Header Row' box and clicking the 'Remove field Step 6: name' button. Then you can type your own field names in the 'Field Name' box and pressing entitles on the keyboard.

Finally after typing all the field names, click 0. This format has to be saved in a file. Type a filenar and click save.

Step 5: You'll get a message box as below:

The data source you just created contains no data records. To add new data records, click 'Edit Data Source' button or you can enter into the main document by clicking 'Edit Main Document' button.

Edit Data Source

Edit Main Document

Select Edit Data Source button to add some addressess for the format you created. The Edit Data Source dialog box will be opened. You can type some addresses. After typing all the addresse, click OK.

Now you are in the Main document. You can type a letter. In the 'To' address part, you can merge the field names by clicking the 'Insert Merge Field' button on the Mail Merge toolbar.

Step 7: Finally to see the merged document, click 'Merge to new document' icon on the Mail Merge toolbar.

This concept will be useful for mailing invitations, greetings, interoffice memos, etc.





MICROSOFT EXCEL

Introduction

them.

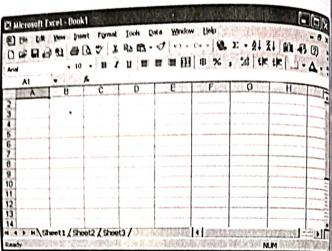
Spreadsheet Programs

Spreadsheet programs are developed to automate tas

production planning details can be stored using a spreadsheet program. This can be used to plan production schedules on a weekly or monthly basis. Eg. Microsoft Execl.

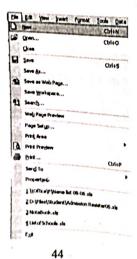
Identification of various screen elements.

The top most portion of the MS Excel window contains the Title bar which displays the title of the current workbook. Below the title bar, the menu bar is present which contains various menus (File, Edit etc) to work with the workbook. The toolbar is present below the menu bar. The toolbar contains A spreadsheet is a grid of rows and columns and it is al picturous representation of the commands present in the menu called as a worksheet. Earlier, spreadsheets were created manual bar. The formula bar is present below the tool bar. The formula with paper and pencil. And people had to use either lined paper displays the address of the current cell towards its left and the graph paper or regular paper with lines drawn on it manually contents of the current cell towards its right. Below the formula organize the columns of numbers on the sheet and manipulation, the worksheet is present. It contains row and column headers. The column headers are from A to IV and the row headers are from 1 to 65536 The intersection of row and column is known as a cell. A work book may contain more than one sheet. The sheets are represented by the sheet tabs at the bottom such as technical calculations, statistics, analyzing dat of the workbook. The status bar is present below the sheet tabs.



Opening a new workbook

To open a new workbook, use the option File-New



Opening a saved workbook

From the Open dialogue box that appears, select a file and click

noting with Entering data into a sheet and among so

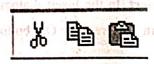
To enter data into the sheet, click a cell and type the data.

Saving the workbook

To save a workbook, use the option File-Save or File-Save As. In the save As dialogue box, enter the name of the file and click Save.

Moving and copying cell contents between cells

Select a cell and click the copy or the cut button on the toolbar. Select a destination cell and click the paste button.

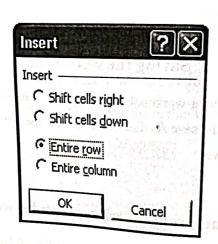




Inserting new cells, rows, columns and shee

To insert a new cell, select a cell and right click, Sel

To insert a new row, select a cell and right click, Sal cell. the option Insert. In the Insert dialogue box, select the opti Entire row and press the OK button.



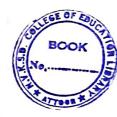
Select the option Insert. In the Insert dialogue box, select the formatting toolbar. option Entire column and press the OK button.

Using the summation icon

Type a few numbers in adjacent cells. Select the cell next the option Insert. In the Insert dialogue box, select the option the last number and press the Autosum icon on the Standard Shift cells right or Shift cells down and press the OK butto toolbar. The sum of the numbers will be displayed in the current



Summation icon



Inserting graphics

To insert objects into the sheet, select the option Insert-Picture. From the sub menu select an item. Follow the steps on the screen to insert the graphics.

Formatting a cell's content, alignment, etc.

You can format a cell by selecting the cell and using the To insert a new column, select a cell and right clic font, font size, font style, alignment buttons, etc. on the



Formatting the row height and column wid

To change the height of a row, select a row and w option Format-Row -Height.

To change the width of a column, select a column and the option Format-column - width.

Renaming the sheets

To rename a sheet, select the sheet on the sheet tab, i click and select Rename. Type in a new name.

Sorting the table

the Sort Ascending or Sort Descending button on the standa

Sort Ascending & Descending buttons.

MICROSOFT POWERPOINT

Microsoft Powerpoint is a software used to create resentations. The presentation may contain one or more slides. To sort a table of items, click a cell in the table and cleach slide contains the objects or text, or even audio and video hat is to be presented to the audience.

Opening a new file

A new PowerPoint file is opened by using the option ile-New. Usually a blank presentation with a slide is created.

Incorporating slides in the presentation

Initially a single slide is present in the PowerPoint To insert more slides, use the option Insert-New slide.

Inserting and animating objects in the slide

After a blank slide is created, we have to insert object like text, pictures, word art, autoshapes, etc. We can use to Insert menu to insert objects, diagrams, movies and sounds.





Enhancing the presentation

Enhancing involves changing the design, colour and fonts the slides. If you want to do this you should select the menu!

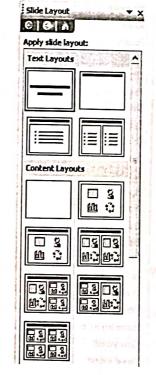
-'Format' the window will appear in several design templates you can select anyone as you wish.

The options present in the format menu are Font, Slide design, Slide Layout and Background.

The font option is used to change the font in the present slide

Slide design is used to apply predefined design to the present slide or the whole presentation

Slide layout is used to apply various layouts to the slide





Last ground of the clide or fill effects to the background of the slide

Adding Animation

With the help of this option, you can add animation click the option "Slide transition" from the slideshow menu in the text available in the slides or selected slides. This done by clicking the option "Animation Schemes" for

Apply to selected	sides
Moderate	A CONTRACTOR OF THE PARTY OF TH
Ascend	the last ball to be
Descend	Maria C
Compress	3.4
Elegant Slide Transitio Rise up Title: Compres Show in Body: Compre	n: Split Vertical I
Spin	-
Unfold	4
Zoom	-
Exciting	M.P.S. Vernanana
Big title	
Bounce	
Credits	
Ellipsa motion Float	
Neutron	
Pinwheel	
Title arc	
Boomerang and aux	
Grow and exit	- 6
Thread and ext	

Slide Transition

This particular option is used to add or change the special effect that introduces a slide during a show. To apply this option,



Running the slide show

To run the slide show, select Slide show -View show or ress the F5 key. To stop the slide show, press the Esc key.

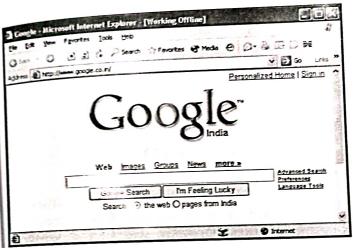
5

INTERNET

Internet is the biggest network which connects miliof computers around the world. It is called the network networks.

To connect to the internet you need a computer with modern, telephone line and an internet account. A modern device that converts electronic signals from your compute telephone signals and vice versa. Internet accounts are usu provided by Service providers like BSNL, Dishnet, etc.

To get into the Internet you must first connect to you must first connect to you supplied by their account.



After connecting to the Internet, you can browse the World Wide Web (WWW) using the software called Internet browsers. Opular internet browsers are Internet explorer, Netscape, etc.

In the internet browser, type the address of the site, like www.yahoo.com to open the home page of the site. You can click he links in the home page to open other pages of the site. The ddress of a site can also be called as its Uniform Resource ocator (URL).

6



E- MAIL

E-mail stands for electronic mail. It is the methor sending mails through the internet. It sends messages across

To use e-mail, you must have an e-mail address nvksdcollege@rediffmail.com. Almost all the sites now h provisions to create e-mail address. To create a simple et is increasingly perceived by government and educators. address, you don't have to pay any money.

world in a matter of few minutes.

To send or receive e-mail, you must first login into e-mail box using your e-mail address as the user name and password that is known only to you. After entering your e-m box, you can create and send mails, read mails, or even de

E-RESOURCES

E-LEARNING

E-learning is a tool for using information technology to enable user to learn any time and anywhere in the world. Eearning is the convergence of learning process through internet. It has brought out profound changes in world over in the way of earning and training of users anytime and any where E-learning

E-BOOKS

E-books or electronic books are published electronically and accessed through internet. It can be described that the entire flow f information from author to reader in machine readable form. ull text of the books will be available either fee based or free of unwanted mails from the mail box. You can also send attachme ost. The term e-book is defined broadly to include electronic along with your mail. Attachments are extra files like photographer eference works, monographs and textbooks. They may be sound files, movie files, etc. you attach with the original file. ielivered via the web or a hand-held device.



Advantage of e-books

- First advantage of the e-books is that the readers can brown the pages with cross reference to other pages.
- 2. There will not be any problem with regard to storage
- 3. Need not go to a particular place to pick up the books. He it saves time.
- 4. Unlike the printed books, there is no possibility for the books to get damaged because of frequent usage.
- 5. A reader can send some important pages to someone through his e-mail.

E-Resources

E-resources are resources in which information is sto economically and which are accessible through electron systems and network. E-resources is a very broad term to includes a variety of different published models, including (

N-List E-resources

The N-List programme can permit the subscribing institution to access more than 2100 electronic books and bibliographic

database through the proxy server of UGC - INFLIBNET (http:/ Inlist://nlist.inflibnet.ac.in). Some examples of electronic journals available are from American Institute of physics, American Physical society, Annual Reviews, Cambridge University press, Economic and political weekly, Indian Journals, Institute of physics, Oxford University press, Royal Society of chemistry, Math SciNet and e-books.

E-Journals

The journals which are web based and available online are known as electronic journals or e-journals. This has been the real wonder of the web based technology. These e-journals have been considered to be one of the significant applications of computer in the field of education.

Definitions

An electronic journal is defined as "any serial publications ROM'S, online database's, e-journals, e-books, internet resource journal, magazine, newsletter in digital format and made available on CD-ROM's online system and in the internet"

> MC Millan has defined the term electronic journal as "any serial produced, published and distributed nationally or internationally via electronic network such as Internet"



Accession a

From the above definition e-journal is nothing but a journal available in electronic format using internet technology. Thou it has the same characteristics as the printed journal it is available electronically. CDROM and Internet are used for the dissemination of electronic journals.

Types of e-journals

The electronic journals are categorized in many type according to purpose.

On the basis of accessibility, e-journals are divided into $_{\mbox{\scriptsize h}_{i}}$ categories.

- Commercial E-journals: These e-journals are not available free Readers and libraries have to pay for the subscription of these journals. Many big publishers publish commercial e-journals
- 2. Open Access E-journals: Open access journals are those which use a funding model that does not charge readers their institution for access. Open access provides users the right to read, download, copy, distribute, print, search, a link to the full text of these articles.

8

SIMPLE OPERATIONS

To find out files in the computer

Start

Search

Files & Folder

Type the name of the File

Enter.

Cleaning the Disk

Programme

Accessories







System tools

Disk Cleaner

(By this, the unwanted files saved in the hard d_{isk} will cleaned)

Cut and Paste

Highlight the text

Cut

Move the Cursor to the Place needed

Click Paste

Copying

Higtlight the text

Click copying icon

Place the cursor where to the copied

Click Paste.

To read from the Floppy

My Computer

3½ Floppy icon

The File names

The Clicked file will open.

Password

Start

Settings

Control Panel

Password icon

Type in the two places the new password

Click O.K.

To Change date

Start

Setting

Control Panel

Double click on the date and time icon Get Sub-menu calender year Make necessary changes Click Apply to apply the changes.

Printing

To get a single copy, just take the document to be type and click on the printing icon, it prints.

To get a view of the matter to be printed -> File - pin preview -> see the pages if necessary.

Copying picture to word

Right click on the picture

Copy

Open word

Place cursor where to be copied

Edit menu

Paste

Internet

Click internet

Type username and Password

Click connect button

After connection, close, if needed.

Chatting

Click chat icon

Type email address

Type Password

Click next well and

After finishing chatting logoff

moduction

9

WORD EXERCISES

EXERCISE - 1

Identify the following screen elements. Application window, Document window, title bar, Menu bar, Ruler line, Standard toolbar, Formatting toolbar, View buttons, Status bar, Control - menu box, Maximize / Restore buttons, Minimize buttons, Scroll bars.

1. Type the following matter

Pcople have always needed to count. Earlier they counted pcople have always needed to count. Earlier they counted the pcople have always needed to count. Earlier they counted the pople have always needed to count. Earlier they counted they

Today we use computers in virtually every environment,

Today we use computers in virtually every environment,

we will not a manipulation. From the manipulation areas unconnected with number manipulation. From the executive in an office to the housewife and her washing machine the teenager recording his / her favourite television programme, to the teenager recording his / her favourite television programme, activity.

The history of computing can be traced to the Abacus was a (2000 BC). Used primarily by merchants, the Abacus was a mechanical device used to add, subtract, multiply and divide numbers. Centuries later, mechanically operated devices were developed. These machines could add and subract numbers (in 1642 Blaise Pascal's Calculating machine), as well as multiply and divide numbers (in 1671 Leibniz's Calculator).

- Save the document as exer1 2.
- Press the following keys to move through the document 3. using keyboard.
 - Home, End, Ctrl Home, Ctrl End, Page Up 3.1. Page Down, Ctrl left arrow, Ctrl right arrow
 - Point the mouse pointer to the selection bar and 3.2. select the first paragraph and make it bold,
 - Underline the word Introduction. 3.3.
- Hide the Status bar from the Application window and 4. later on display it.
- 5. Hide the Drawing toolbar.
- 6. Open a blank document and later on closes it.
- Save the current changes in the document exer1 7.

EXERCISE - II



Importance of Computers

Almost a century ago a spate of inventions ushered in the first Industrial Revolution. Within a short span of time many countries became industrialised. Now, we are in the beginning of another Industrial revolution. The major cause of the second Industrial Revolution is the invention of computers. Man has invented many electronic devices but the computer has made a greater impact on society than any other single device. They have made a potentially significant contribution to the society during the last three decades.

The spate of innovations and inventions in computer technology during the last decade has led to the development of micro and personal compurters. They are so versatile that they



have become indispensable to engineers, scientists, business of the become indispensable to engineers. executives. They have strengthened man's powers in numerical numer computations and information processing and thereby increase

Computers have helped automation of many industrial and business system. They are used extensively in manufacture and processing industries, power distribution systems, airling reservation systems, transportation systems, banking systems, and so on Computer - aided design (CAD) and Computer - aided manufacture (CAM) are becoming popular among the large

Do the following:

- Save the document as Exer2 Ι.
- Copy the first paragraph as the fourth paragraph. 2.
- Select the first sentence of the fourth paragraph and 3. increase the font size to 16.
- Select the fourth paragraph and delete it. 4.
- Restore the deleted paragraph using the Undo command 5.

Copy all the matter to the second page.

Insert the current Date and Time at the top right corner of

set the line spacing of the second paragraph to DOUBLE.

Change the alignment of the whole document to JUSTIFY.

Change the color of the word 'Computer - aided design'

Insert page numbers at the bottom center of the page.

- Increase the font size of the word 'Computer' to 16. 12. Change the Font style to Bold, Italics.
- Find the word 'Business' in your document and replace 13. it with 'establishments'.
- Undo the replace command. 14.
- Open a blank document and type two or three lines in it 15. then close without saving it.
- Save the document before exiting from Word. 16.

EXERCISE - III

1. Type the following passage

Drug Traffic

How much good drugs and drinks have done to huma beings who are their most avid consumers only some supercomputer of the next century with its subtle mechanism of calculation will tell us. What we presently know about them is that they have done incalculable harm to both individuals and nations by making the former physical wrecks and releasing a tidal wave of terrorism striking the latter with the fury of a tornado. There is no hospital accommodation for the swelling numbers of drug-addicts in many countries, and running battles are being fought between security forces and hired agents of mafia

lords in Italy, Colombia and some other countries of Latin America where drug trade is largely concentrated.

AK-47's machine guns and other deadly weapons purchased with narco-dollars are being used by guerrilla armies in some countries to topple established regimes, and by rival gangs of drug mafias to liquidate each other. Some Prime Ministers, Attorney Generals, officials of investigating agencies and thousands of police officers have fallen a prey to the bullets of narco-terrorists. This nexus between drug traffic and narco-terrorism is a global phenomenon which even a super power like America is finding beyond its resources to tackle.

- Increase the Top, Bottom, Right, Left margin by one inch. 2.
- Point to the File Print menu and see the options printer name, page range, print.
 - Click on the properties and see the Orientation -3.1. Portait and Landscape.
- Copy the format of the second paragraph to the third 4. paragraph (Using the Format Painter)
 - Save the document as Exer3 5.

EXERCISE - IV

Try out the EFFECTS in the Format - Font menu.

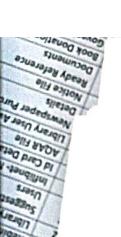
- Superscript- a2+2ab+b2
- 2. Subscript- H₂SO₄
- 3. Strike through - Word processor
- Double strike through Word Processor 4.
- 5. Shadow - Introduction.



WORKING WITH TABLES

Student Name	Mark 1	Mark 2	Mark 3	Mark 4
Arun				- Tank 4
Reena			w _{eph}	
Ali			7.7	
Smitha				
Priya	t i	er for the	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	+-
Mohammed	e _E			+
Judy	. 4			+
Hussain				
Samir		3-		
		75		





HIVI

EXERCISE - IV

Try out the EFFECTS in the Format - Font menu.

- Superscript- a²+2ab+b² 1.
- Subscript- H₂SO₄ 2.
- Strike through Word processor 3.
- Double strike through Word Processor 4.
- 5. Shadow - Introduction.



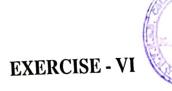
818 HIZ

WORKING WITH TABLES

Student Name	Mark 1	Mark 2	Mark 3	Mark 4
Arun	de la p			
Reena		A - F 1	1	
Ali				
Smitha	mid re	and the second		
Priya 🔭 🔥	Marie Contract	- A-ta		
Mohammed	1 -	The lead		800
Judy				
Hussain				
Samir				
		75		

- Create the above table and enter the marks (Out of 100) Insert a column at the last for Total marks and find the 2.
- 3.
- Add Borders and shading to the Table of your choice. Sort the table in the alphabetical order. 4. 5.
- Create a page break after the table. 6.
- Save the document as Exer5

1.





1. Type the following passage

Pollution

Our beautiful sunbright ecosystem is being systematically damaged by industrial pollution channelled into rivers like the Ganga and Jamuna, nuclear wastes from atomic plants routed into the world's oceans, and poisonous gases such as carbon dioxide mixed with the ozonosphere. Besides, tropical rain forests and green pastures are disappearing under the pressure of a proliferating population. Rivers like the Narmada are being dammed to change nature's well-balanced surface equations between flora and fauna, and sloping mountainous terrain is being converted into mini oceans to supply electricity to the ever starving industrial stomach of our age. Elephants, tigers, the wild rhinos of South Africa and many other forest creatures have become endangered species.

Oil tankers spilling their leaking cargo on the world's watery surface have already killed millions of sea animals. More than 600 oil wells billowing fire and smoke which the Iraqi army retreating from Kuwait burnt have not only changed weather conditions in the Middle East and some parts of Asia, but created what scientists call the greenhouse effect. All these vandalistic activities of industrial man are destroying the virginal neatness of nature so well orchestrated into the soul of our ecosystem.

- 2. Center the HEADING.
- Allign all the paragraphs to justify (i.e. all line should should be equal)
- Make 2nd paragraph with 0.4 and 0.4 for left and right margin respectively and make spacing to 6 pts and after, in 'special' create a first line 0.5" indent.

10

EXCEL EXERCISES

EXERCISE - I

Identify the following screen elements:

Application window, Title bar, Menu bar, Standard toolbar, Formatting toolbar, Formula bar, Name box, Sheet window, Row / Column headers, Sheet tab, Vertical / Horizontal Scroll bars, Status bar, Minimize / Maximize / Restore / Close buttons, View buttons.

Desire	d Allibio		Inter Libran	L 918
Anisegen	J agaillege !	Register Fo	Accession inter Library	RIS
		Register Po	Accession	RIT
		_	Accession	RI3
			-	era

	A	В	C	W. Contract	_		
1	JAN	MAR	MAY	D	E	false-	
2	MON	TLE	WED	JU	SEP	F	
3	Q1	Q2	Q3	UHI	FRI	NOV	1
4	Α	A	A	Q4		77	2
5	10.00 AM	10.15 AM	L .	A 10:45 AM	A	A	/
6				10:45 AM	11:15 AM	11:15 AM	110
7							113
8							_
9							

- 1. Save the exercise.
- Select the first row by clicking at the row header.
 Select the first row by clicking at the row header.
- 3. Select the third column by clicking at the column header.4. Copy the second selection of the column header.
- 4. Copy the contents of the cell A3 to E8.5. Move 4.
- Move the contents of 2nd row to 9th row.
 Incompany
- Insert a blank row after 4th row.
 Insert a blank row after 4th row.
- 7. Insert a blank column after column D.8. Save the cl.
- Save the changes made to the exercise.



EXERCISE - II

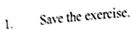
A B Studer Name Mark 1	C nt Status Mark 2	Report	E Stand Mark	lard -	X	Total
3 Philip		-	 	+		
4 Jack	<u> </u>		+-	-		
5 Billa	1	+	+	\dashv		
6 Beena			+-	-		
7. Tom			+			1
8 Huck			+			+
9 Diana			+			+-
10 Simon						
11 Arthy			,	1	\	
12 Ajay	here		and the same	and the second		

- Save the exercise. 1.
- Enter your own data for the marks columns. 2. 3.
- Calculate the total marks for the first student.
- Copy the formula for all the students. 4.
- 5. Add some more data to the table.
- 6. Do the necessary formatting.
- 7. Save the changes.

EXERCISE - III

_	A	B	C	D	E	
	NAME	BASIC PAY	HRA	DA	DEDUCTIONS	NET PAY
$\frac{1}{2}$	Samir	350		- 4	-	J
3	Ashish	600	1 1	11 11		y
4	Srivatsav	250				1
5	Pankaj	175		0. 50	- p =	-
6	Kaurav	800		(1,)		
7	Dev	450	a (±11)		- Life opti	, Pt
8	Seema	425	77	-	to be forte	ш
9	Guru	150			1	9
10	Ajith	200				





- Calculate the HRA as 10% of the Basic Pay for the First employee.
- Calculate the DA as 8% of the Basic Pay for the first employee.
- Calculate the Deductions as 15% of the Basic Pay for the first employee.
- Calculate the Net Pay as Basic Pay + HRA + DA.
 Deductions for the first employee.
- 6. Copy the formula for all the employees.
- Switch off the Automatic Calculation button and later on switch it on.
- Hide the gridlines and later on display it.
- Do the necessary formatting to the table
- Add the Header as 'Employee Status Report' and Footer as 'End of Report'
- 11. Save the changes.



EXERCISE - IV

				Division of	E	F	G
T A		B	Cons in In	dia fron	n 1993 ii	n cms.	Agra
1 R	_	1	Mumbai	Calcutta	Madras		Agra 21
2	_		22	21	23	25	27
3 199	-	21	32	30	29	28	-
4 19		· 31	26	21	24	23	22
£7130001	95 96	21	21	22	23	22	21
E.9762941	997	20	23	24	21	22	

- 1. Prepare a column chart based on the above data.
- 2. Use the tool button to change the type of chart to pie chart.
- 3. Add the following data to the table and modify the chart using the chart Add Data ...

84

0.5

J.P	in the						
New Year	10	Delhi	Mum		_		
2	1998	21	Mumbai 25	Calcutta	Made		
3	1999		25	21		Goa	
18.9		20	23	21	23	24	Agra
				-1	24	25	56
4.	P _{mm}					~	21

4. Prepare a column chart based on the following data:

St	udents Pe Appl	rforma ications	nce Re	port for ination		g data;
Windows 98	Rajesh	Ravi	Salim	Ibrahim	1999	
	66	65	72	73	Lincoin 68	Kennedy
Ms Office 2000	58	59	60	65		70
Oracle 8.0	70	72	56	= ,	70	72
Visual Basic 6.0	55	6		60	58	52
		65	58	57	59	52

5. Save the exercise before you exit Excel.

11

KEYBOARD SHORTCUTS

Keyboard Shorcuts (MicrosoftWindows)

- 1. CTRL+C(Copy)
- 2. CTRL+X(Cut)
- 3. CTRL+V(Paste)
- 4. CTRL+Z(Undo)
- 5. DELETE(Delete)
- 6. SHIFT+DELETE (Delete the selected item permanently without placing the item in the RecycleBin)
- 7. CTRLwhiledragginganitem(Copy the selected item)
- 8. CTRL+SHIFT while dragging an item (Create a shortcut to the selected item)

- 9. F2 Key (Rename the selected item)
- 10. CTRL+RIGHT ARROW (Move the insertion point to the
- 11. CTRL+LEFT ARROW (Move the insertion point to the
- 12. CTRL+DOWN ARROW (Move the insertion point to the
- 13. CTRL+UP ARROW (Move the insertion point to the beginning of the previous paragraph)
- 14. CTRL+SHIFT with any of the arrow keys (Highlight a block
 - SHIFT with any of the arrow keys (Select more than one item in a window or on the desktop, or select text in a
- 15. CTRL+A (Select all)
- 16. F3 key (Search for a file or a folder)
- 17. ALT+ENTER (View the properties for the selected item)
- 18. ALT+F4 (Close the active item, or quit the active program)
- 19. ALT+ENTER (Display the properties of the selected object)
- 20. ALT+SPACEBAR (Open the shortcut menu for the active window)

- 21. CTRL+F4 (Close the active document in programs that enable you to have multiple documents opensimultaneou sly) 22.ALT+TAB (Switch between the open items)
- 23. ALT+ESC (Cycle through items in the order that they had
- 24. F6 key (Cycle through the screen elements in a window or
- 25. F4 key (Display the Address bar list in My Computer or Windows Explorer)
- 26. SHIFT+F10 (Display the shortcut menu for the selected item)
- 27. ALT+SPACEBAR (Display the System menu for the active window)
- 28. CTRL+ESC (Display the Start menu)
- 29. ALT+Underlined letter in a menu name (Display the corresponding menu) Underlined letter in a command name on an open menu (Perform the corresponding command)
 - 30. F10 key (Activate the menu bar in the active program)
 - 31. RIGHT ARROW (Open the next menu to the right, or open a submenu)

10 ALL' V (Display the View menu

- 32. LEFT ARROW (Open the next menu to the left, or close a submenu)
- 33. F5 key (Update the active window)
- 34. BACKSPACE (View the folder onelevel up in My Computer or Windows Explorer)
- 35. ESC (Cancel the current task)
- 36. SHIFT when you insert a CD-ROMinto the CD-ROM drive (Prevent the CD-ROM from automatically playing)

Main Window Keyboard Shortcuts

- 1. CTRL+O (Open a saved console)
- 2. CTRL+N (Open a new console)
- 3. CTRL+S (Save the open console)
- 4. CTRL+M (Add or remove a console item)
- 5. CTRL+W (Open a new window)
- 6. F5 key (Update the content of all console windows)
- 7. ALT+SPACEBAR (Display the MMC window menu)
- 8. ALT+F4 (Close the console)
- 9. ALT+A (Display the Action menu)
- 10. ALT+V (Display the View menu)

11.ALT+F (Display the File menu)

12.ALT+O (Display the Favorites menu)

MMC Console Window Keyboard Shortcuts: 1. CTRL+P (Print the current page or active pane) 2. ALT+Minus sign (-) (Display the window menu for the active

SHIFT+F10 (Display the Action shortcut menu for the

4. F1 key (Open the Help topic, if any, for the selected item)

- 5. F5 key (Update the content of all console windows) 6. CTRL+F10 (Maximize the active console window)
- 7. CTRL+F5 (Restore the active console window)
- 8. ALT+ENTER (Display the Properties dialog box, if any, for theselected item)
- 9. F2 key (Rename the selected item)
- 10. CTRL+F4 (Close the active console window. When a console has only one console

Microsoft Internet Explorer Keyboard Shortcuts:

- 1. CTRL+B (Open the Organize Favorites dialog box)
- 2. CTRL+E (Open the Search bar)

- 3. CTRL+F (Start the Find utility)
- 4. CTRL+H (Open the History bar)
- 5. CTRL+I (Open the Favorites bar)
- 6. CTRL+L (Open the Open dialog box)
- 7. CTRL+N (Start another instance of the browser with the same Web address)
 - 8. CTRL+O (Open the Open dialog box, the same as CTRL+L)
 - 9. CTRL+P (Open the Print dialog box)
 - 10. CTRL+R (Update the current Web page)
 - 11. CTRL+W (Close the current window)



