9

Internet

In this chapter, you will learn about :

- Know the concept of Internet ● Understand the various terms of Internet
- Know the working of e-mail ● Know the working of search engine
- Understand the concept of chatting

From the late 1960 to the early 1990, the Internet was a communication and research tool used almost exclusively for academic and military purpose. This changed radically with the introduction of the world wide web (www) or web in short in 1989.

The World Wide Web (www) : It is a set of programs, standards and protocols that allows the multimedia and hypertext files to be created, displayed and linked on the Internet.

Hypertext : It refers to the combination of text, graphic image, audio and video tracks and hyperlinks. A hyperlink refers to a dynamic link upon clicking at which a new web page or program opens.

Interactive : www with its page supports and enables inter-activity between users and servers through one or more of the following ways :

- Hyperlinks

- Input boxes *e.g.* radio buttons, check boxes, text boxes.

Frame : www also supports frames. Frame is the display of more than one independently controllable section on single web page.

ELECTRONIC MAIL (E-MAIL)

The most widely used tool on the Internet is electronic mail or e-mail. E-mail is used to send written massages between individuals, often geographically separated by large distance. E-mail messages are generally sent from and received by mail servers-computers that are dedicated

to processing and directing e-mail. Once a server has received a message, it directs to the specific computer whom the e-mail is addressed to. To send e-mail, the process is reversed. A very convenient and inexpensive way to transmit message, e-mail has dramatically affected scientific personnel and business communications.

E-MAIL ADDRESS

Although sending and receiving mail is extremely simple, however, there are a few parameters you must be clear about before you start sending and receiving mails. One such parameter is E-mail address.

E-mail and addresses commonly take this form :

Nitu_kumar@yahoo.com

Here you see that before the character @ (pronounced at the rate) the e-mail account holder's net name appears and after @ the name of net server appears which hosts this e-mail.

Electronic mail is changing the way world thinks about exchanging information. It has invaded every area of computing and has revolutionized science and business. Scientists across the world are sharing information through electronic mails. There are cases where scientist working on the same project never meet, they do all their work through e-mail. Business travellers laptops can communicate with others without annoying phone tag sessions. This popularity of e-mail is all because of its advantages.
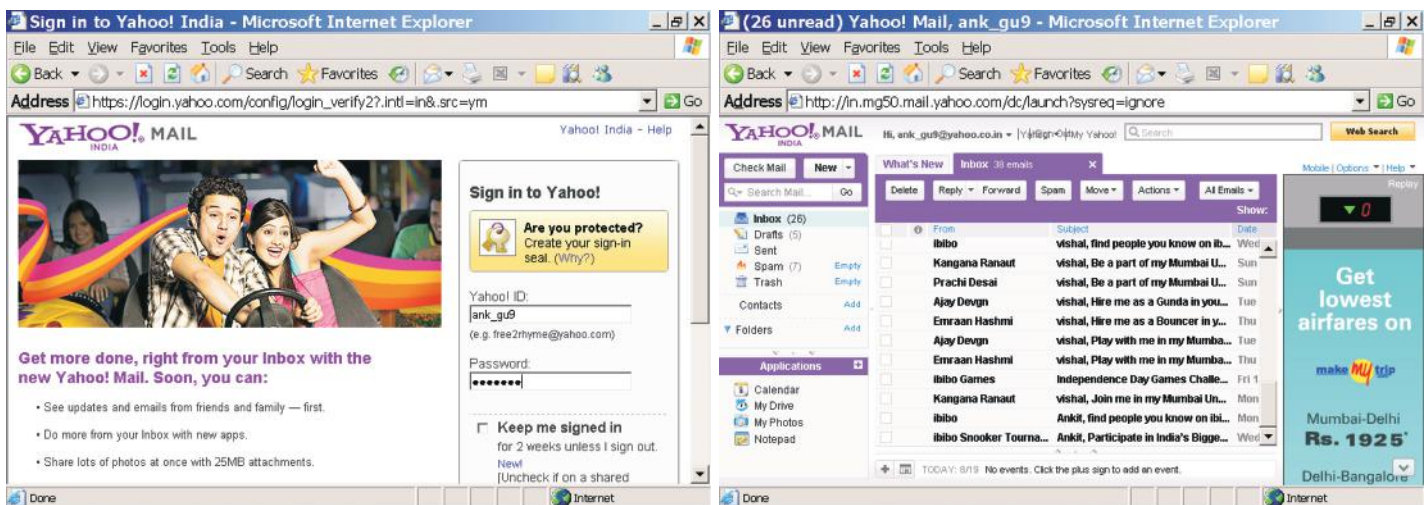
Advantages of e-mail :

1. **Low cost :** Electronic mail is an extremely cost effective way to transmit information around, specially when it must be moved quickly. A three page letter to USA can cost ₹ 500 through courier or about ₹ 100 to fax. The same letter can be sent by e-mail for the cost of one local call charges.

(b) **Speed :** E-mail can be delivered almost as fast as the wire can carry it.

(c) **Waste Reduction :** E-mail goes a long way toward reducing the cluster of paper in the modern office, not to mention saving many trees.

(d) **Easy to use :** It is easy to use an e-mail. You don't have to re-type it three times, find an envelope and go to corner to buy a stamp, and then find a mail box.

(e) **Record maintenance :** Because all messages are files, you can automatically maintain a record of communication with someone else.

(f) **Patience :** E-mail, wait until you read it. It does not have the jangling urgency of a phone call.

VIEWING RECEIVED MAILS

Once you have created your e-mail account, you can log on it and view your mail. For this you will have to get back to web page that allows you to log into your e-mail account. For instance, if we have created an e-mail account on yahoo.com, so we will have to go to web page mail yahoo.com. Following steps will guide you how to view the mails in your e-mail accounts.
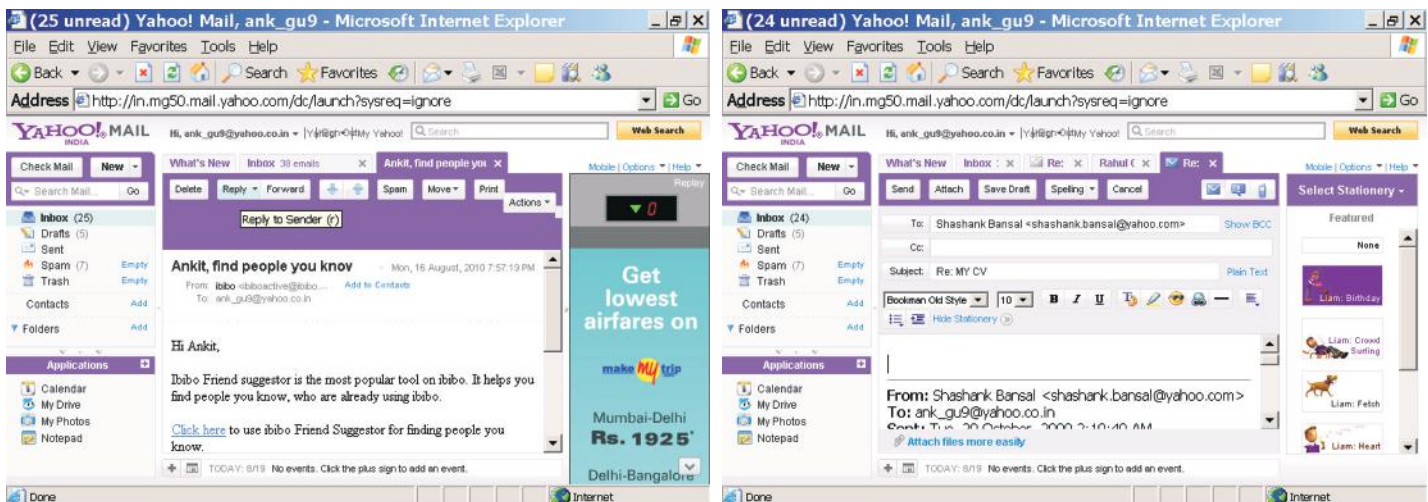
Step to view a e-mail :

(a) Go to mail, yahoo.com web page (by typing the URL http:// mail, yohoo.com in the address book) to log into your e-mail account. In this web page, type the newly created logic and password in front of user name and password fields, and click at login.

(b) Click on Inbox to view mails.

(c) Double click on the mail you want to open.

REPLYING AND FORWARDING AN E-MAIL MESSAGE

While you are reading a received e-mail message, you can reply to the sender of this message immediately by clicking at Reply button. When you click at Reply button, it takes you to the compose window where, automatically the address of the sender appears in front of the box *i.e.*
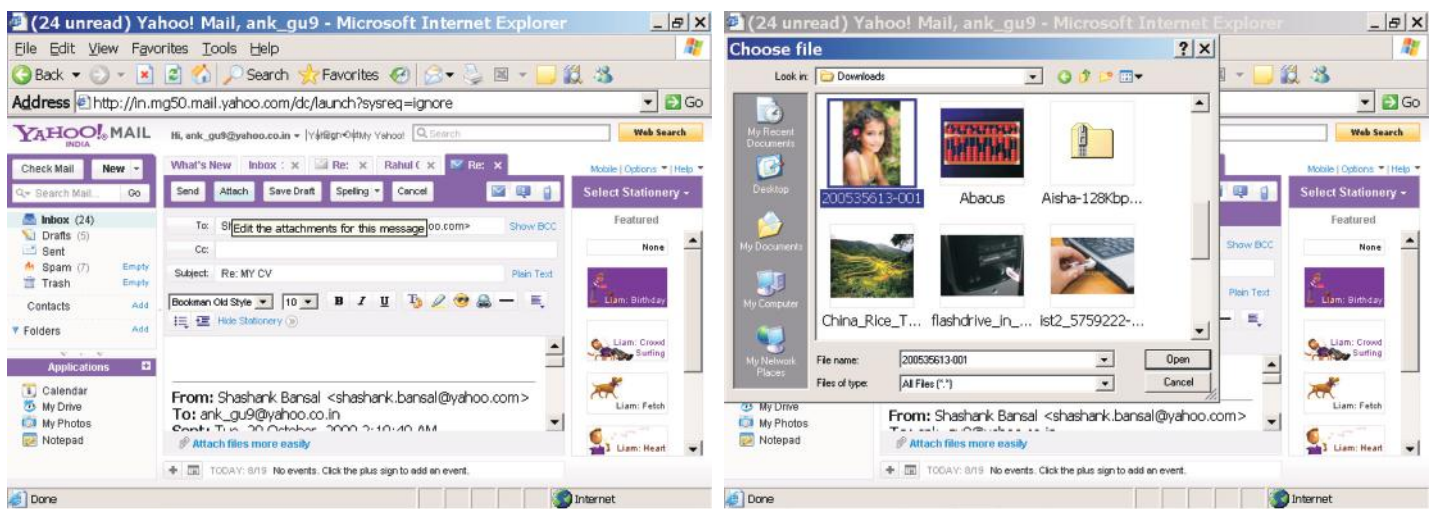
the sender becomes recipient of reply message. Now in compose window, you can write the replying mail message and send it.

ATTACHING A FILE WITH THE MAIL

Suppose you have written a story or painted a picture that you wish to share with a friend, then e-mail is a great help. Save in your computer your story or note or picture or whatever you wish to share with others.

A file sent with the e-mail is called an attachment, for it is attached to a regular e-mail. You can send almost anything with an e-mail that is saved in a file.

To attach a file, type the address and compose the message as usual. Then click the insert file button in Outlook Express or the Attach Button in messenger. A dialog box will appear in which you can select the file you wish to attach and send it.

SENDING MAIL

To send mails to your friend and relatives, you need to first log into your e-mail account and then follow these steps :

(a) After logging into your e-mail account, you need to click at compose (or new mail in some accounts) buttons to compose a new mail message to be sent.

(b) In the compose message window, you will see various fields which are to be used for the following things :

To – Mail ID of recipient.

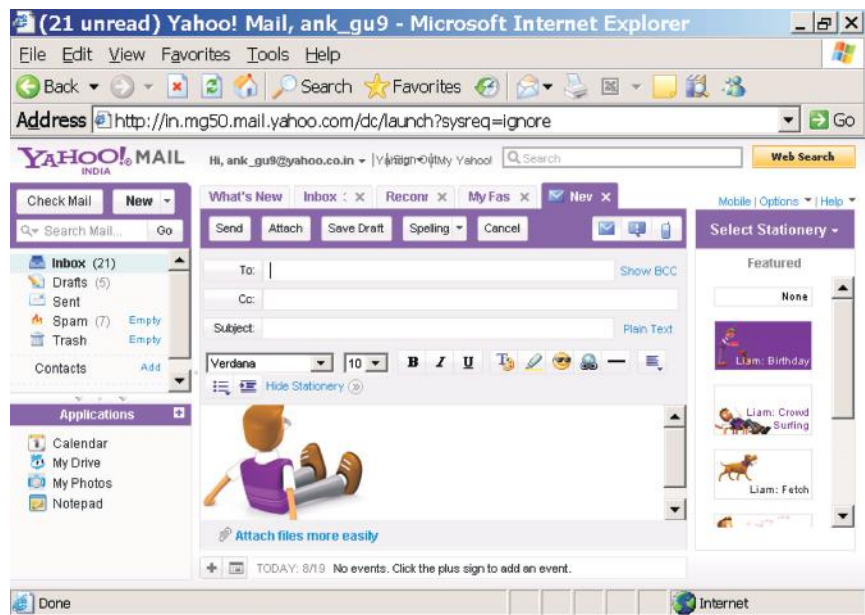CC – Mail IDs of recipients of carbon copy of this mail message.

BCC – Mail IDs of recipients blind carbon copy.
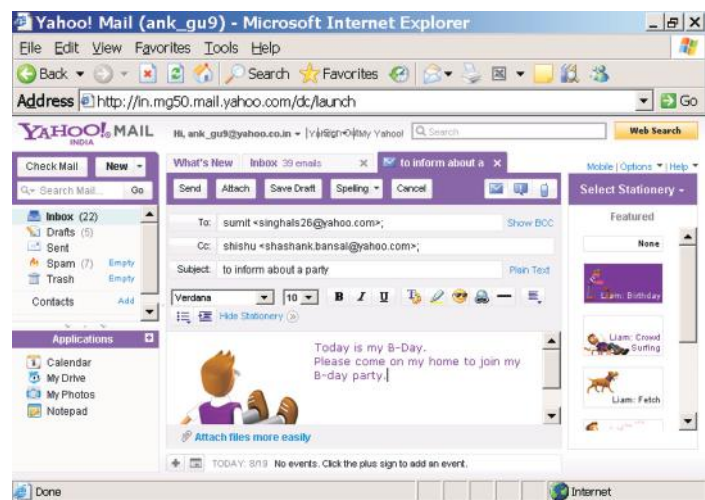
Subject – Title of the mail message.

- The carbon copy *i.e.* cc field allows you to send the same mail message to multiple recipients at the same time. For example, if a manager wants to send same message

to all his/her subordinates, he/she may use this field for entering the mail IDs of the subordinates.

- The blind carbon copy *i.e.* BCC field allows the sender to send some mail message to multiple recipients without letting them know that some other persons also have received the same message.

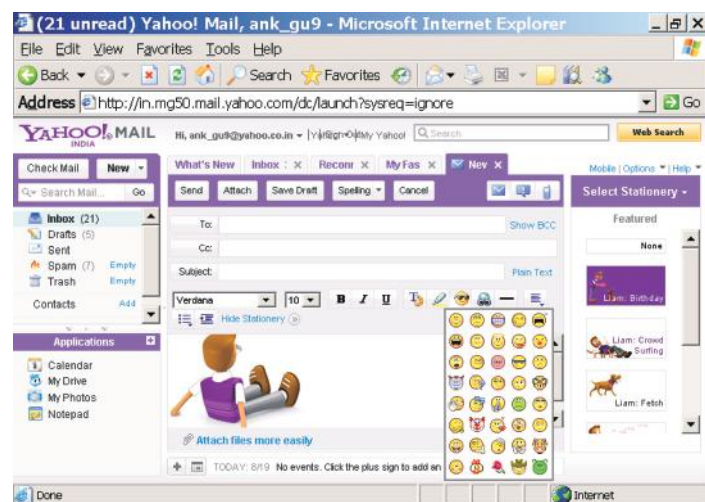- Separate multiple e-mail address by commas or semicolons.

(c) Fill in the details of e-mail message and write the text of message in the box designed for it. If you want to attach a file with your e-mail message, first browse through your computer to select the desired file and then click at Attach (on same mail servers, you need to first click at attach button then browse and finally at done button). Once you are through with composing the e-mail message, click at send. And your e-mail will be sent to the recipients.

EMOTICONS

While writing e-mail to your friends and relatives, sometimes you strongly feel like expressing your emotions. Since your mails recipient cannot see you or hear you, expressing your emotions to him/her becomes a difficult task.

To make it easy for you, emotions are available here. Emoticons or smiley are the symbols used for expressing emotions or conveying facial expressions.
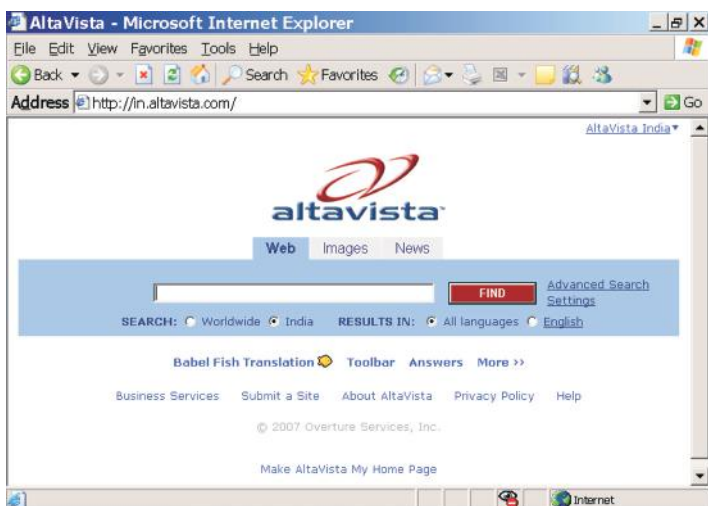
SEARCH ENGINES

Until now you were surfing internet by visiting sites known to you. What if you want to view particular information but you do not know which site would provide you that information. In that

case you need to search for that information on the web and this can be done for you through search engines, a program used for searching information on the Internet.

Finding information using a search engine

There are many search engines on the web. The searching process is similar on these search engines. Some popular search engines are as follows :
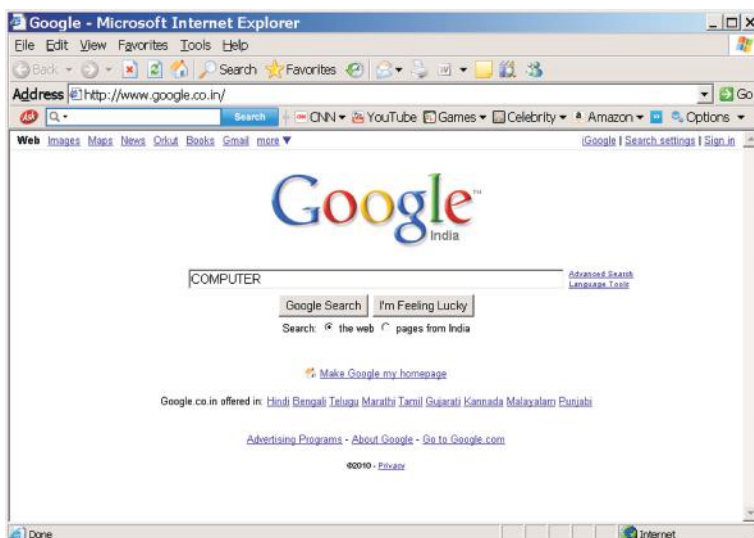
- www.google.com
- www.rediff.com
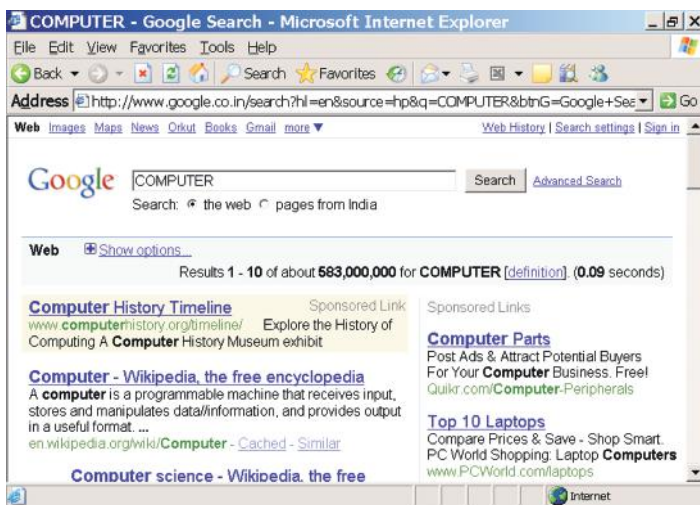- www.ask.com
- www.msn.com
- www.yahoo.com
- www.altavsta.com

We are going to learn the information searching process in a very popular search engine and that is google (www.google.com).

To search for web pages pertaining to a specific information, all you have to do is :

Step 1 : Go to the home page of the search engine.

Step 2 : Type the information to be searched for in the box provided for it.

Step 3 : Now click at the search button next to it. Within a few seconds, the search engine will search for that information and display the links to the web pages which are linked to your desired information in some way.

FINDING PEOPLE ON THE NET

The internet provides several search engines that are primarily intended to help you locate general information. However, many search engines also offer a way to search for basic information about people and places.

If you want to find out a person's e-mail ID, shown numbers, street address, you can use this service. To do this all you have to do is go to one such and then supply some information (like name etc.) required to search desired information. We have do this through the people search utility of yahoo.
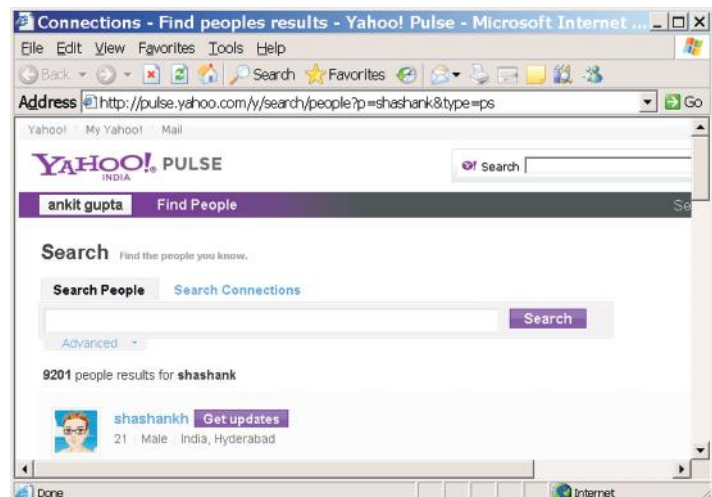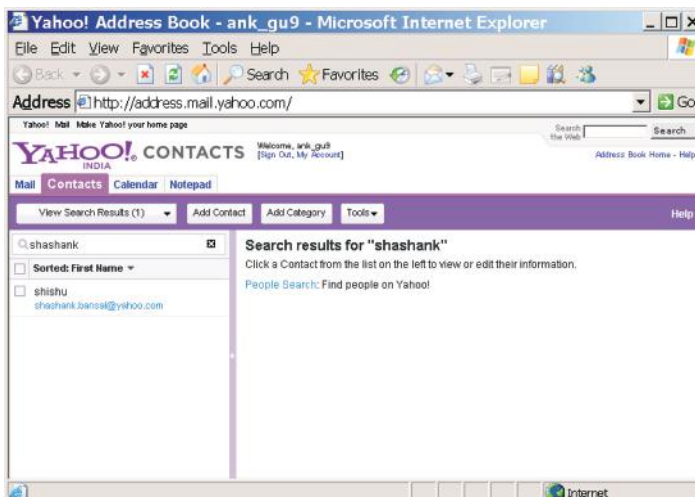
For instance, if you want to search e-mail ID of a person, follow these steps :

Step 1 : Log on the www.yahoo.com.

Step 2 : Now click at people link on the home page of yahoo.

Step 3 : You will see the people search page on your screen. Now type the first and last name of the person whose e-mail ID you want to search for.

Step 4 : Click search button and the search engine will search for the name given in its data house and display the results on your screen.
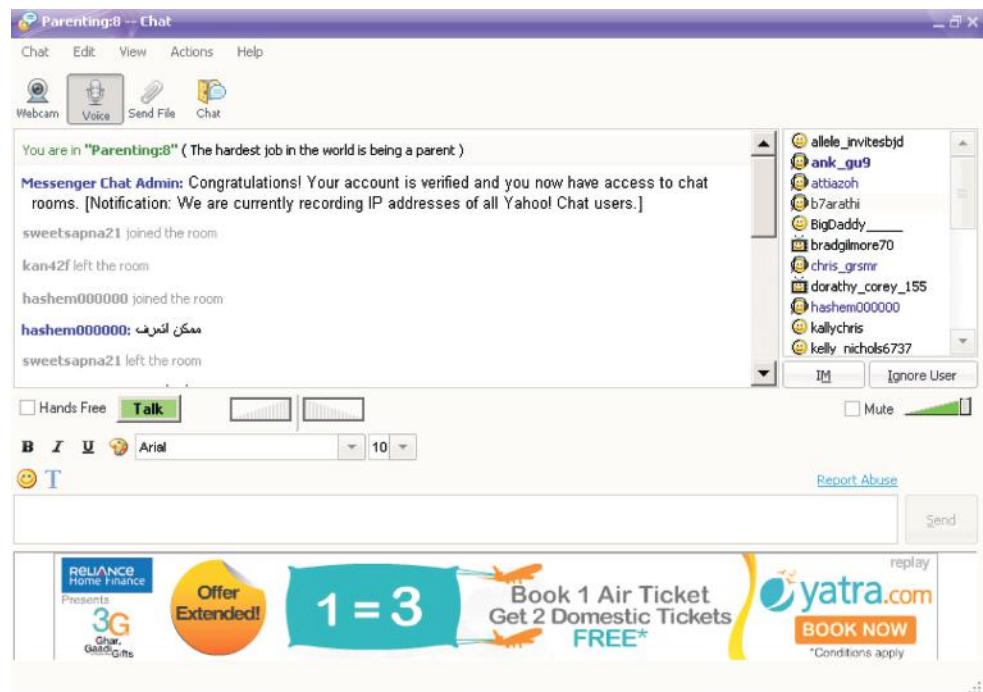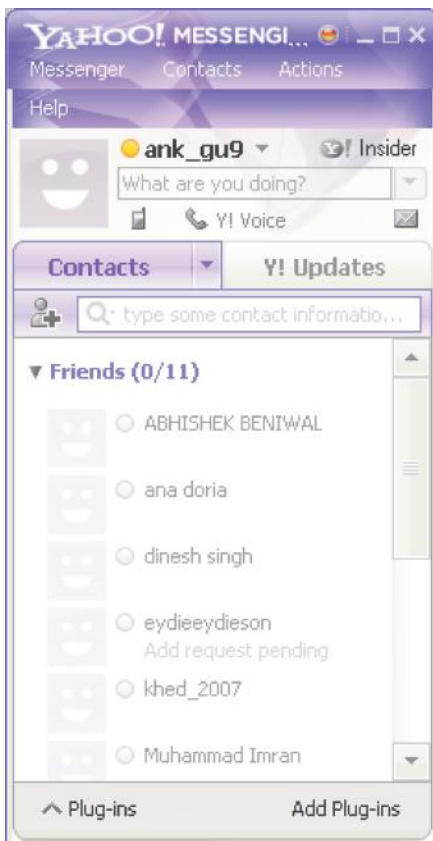
CHAT

Chatting is the fantastic thing. On Internet, chatting is like text where phone in a telephone conversation, you say some thing, people hear it and respond. You hear their responses on the spot and can reply instantly. In the same manner in chatting, you type a message on your screen which is immediately received by the recipient, then the recipient can type a message in response to your message which is received by you instantly.

Step 1 : Log on the site www.yahoo.com and then click at chat link.

Step 2 : Now the chat server of www.yahoo.com asks you to enter nickname *i.e.* a name you want to chat yourself with. We entered name "vipin" in it. In current chat session, we will now be known as "vipin" to other user.

Step 3 : Now it will log on its server and you can now chat with other users. See names of the other users who are currently chatting, are displayed in a list box on same server. You need to click at Send Button to send your message.

On most chat sites, you can also change rooms by clicking at Room link. Room basically refers to a group of approachable chat users. One can chat with all other users in the same chat room. To chat with users in other chat rooms, one needs to change the room.
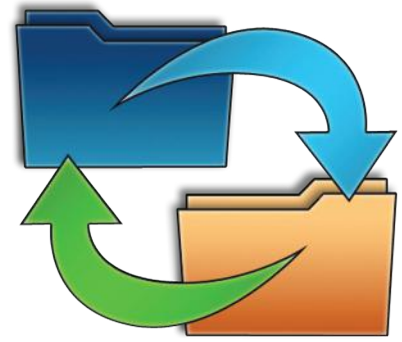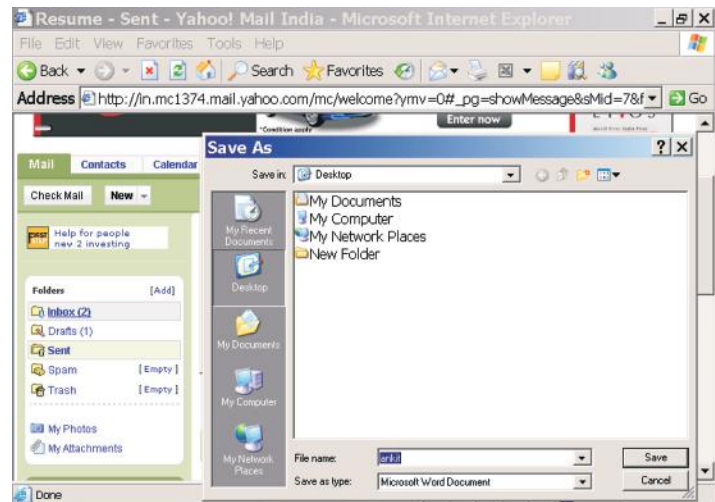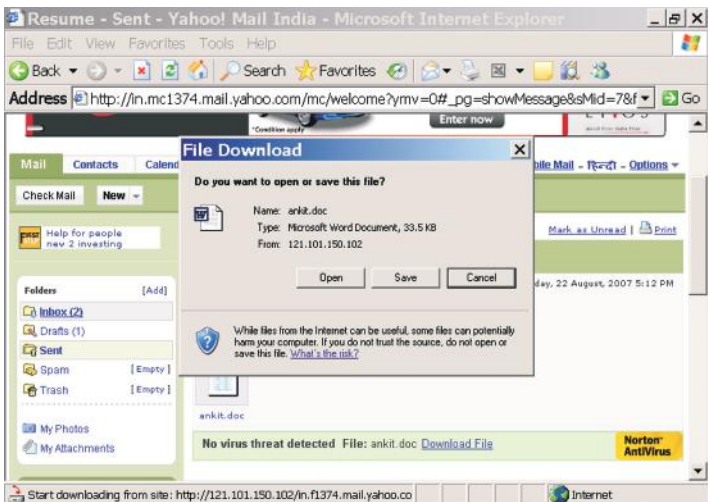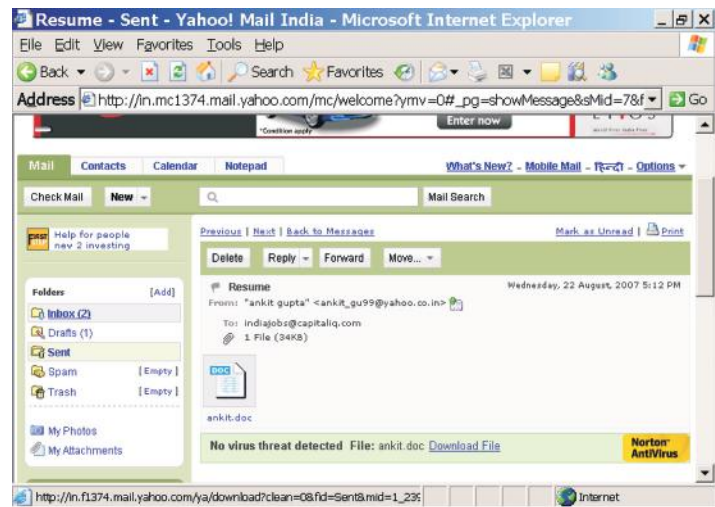
FTP (FILE TRANSFER PROTOCOL)

The term 'FTP' is used in a number of different, though inter-related senses. First, FTP refers to the file transfer protocol which defines a method for transferring files from one computer to another a network. A computer chat stores files for transfer using this protocol and is called an FTP server or FTP site.

DOWNLOADING FILES THROUGH YOUR BROWSER

Both icons and sites names are links that let you navigate around the FTP file system. Click on folder or name to open a directory etc. When you click on a file name or page icon, if the browser can handle the file type the file will be displayed in the browser's "save file" command. To download a copy to your computer, yahoo can also download a file by first selecting its icon, right clicking upon it, selecting the option copy to folder, and then by specifying the folder on your computer. When the downloading is in progress, a window similar to the one shown in the given figure appears. Notice the icon representing FTP sites.
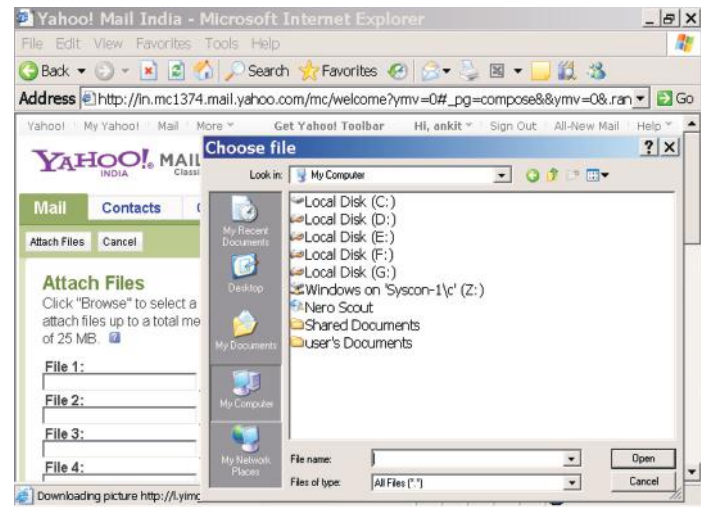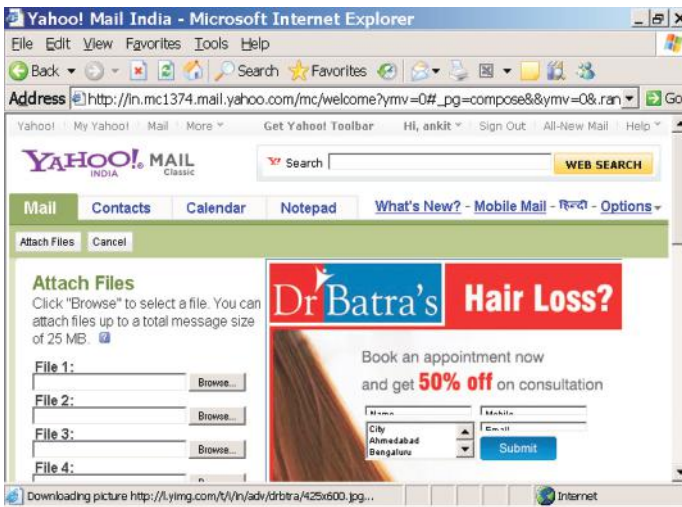
UPLOADING FILES THROUGH BROWSER

Uploading a file means 'transfer of the file' from your computer to the FTP site. However, to upload your files, you need to login an authorized user. In other words, only the authorized user can upload files.

Uploading files

Step 1 : Open the desired FTP site in your browser and login as an authorized user and minimize.
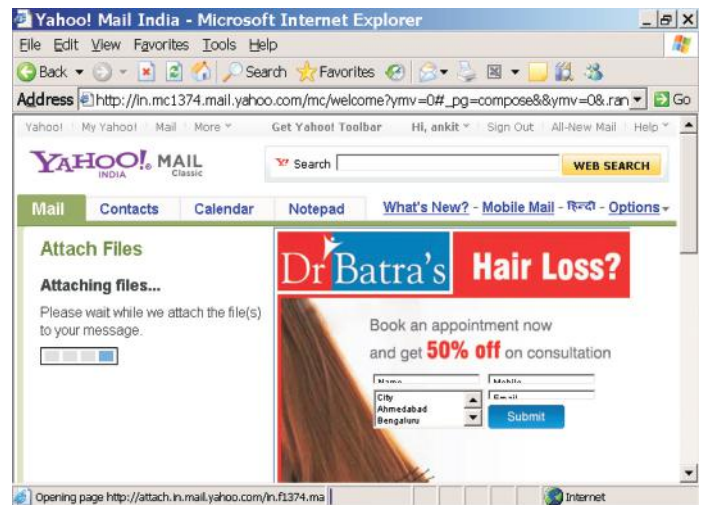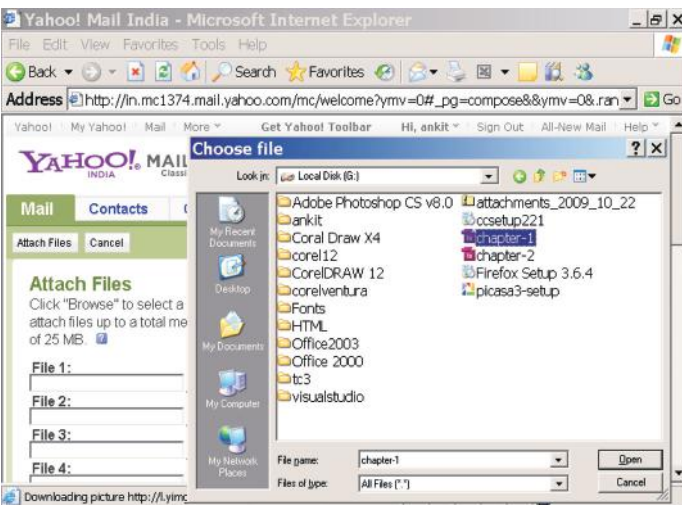
Step 2 : Now click My Computer icon and reach at the folder where your file to be upload rests.

Step 3 : Select the file to be uploaded and then select Edit menu's copy command.

Step 4 : Now maximize the browser window wherein you have opened FTP site and then click either at paste icon or select edit paste command.

Step 5 : And you will see a window showing this process.

TELNET

Telnet is an older internet utility that lets you log on to remote computer system. Basically, a telnet program gives you a character based terminal window on another system. You get a log on prompt on that system. If you have permitted access, you can work on that system just as you would if you were sitting next to it.

Traditionally, telnet has been used by people who have login on remote systems and want to do serious work there.

NEWS GROUP

A news group or form is like a community bulletin board. You can post a message, reply to a message or just read message, and when a user sends a message, the news server posts it for other members of the news group to read. They can now respond to your message. Groups of related messages are known as **Threads**.

Points to Remember

- Internet is a network of many small networks that exist all over the world.
- The world wide web is a set of programs, standard and protocols that allow the multimedia file to be created, displayed and linked on the internet.
- The hypertext is a combination of text graphic image, audio, video tracks and hyperlink.
- Sending and receiving message electrically is called e-mail.
- Telnet is an internet utility that lets you log on to remote computer system.

EXERCISE

A. Tick (✓) the correct option :

1. World Wide Web introduce in _____.

    (a) 1985 ☐   (b) 1989 ☐

    (c) 1980 ☐   (d) 1991 ☐

2. Which symbol is used in an email address ?

    (a) # ☐   (b) $ ☐

    (c) @ ☐   (d) e ☐

3. The file sent with email is called _____.

    (a) Page ☐   (b) Frame ☐

    (c) Attachment ☐   (d) None of these ☐

4. BCC stands for _____.

    (a) Blank Carbon Copy ☐   (b) Blind Carbon Copy ☐

    (c) Black Carbon Copy ☐   (d) Bold Carbon Copy ☐

5. Yahoo.com is a _____.

    (a) Search engine ☐   (b) email address ☐

    (c) News group ☐   (d) None of these ☐

6. File transfer protocol is used for_____.

    (a) Saving a file ☐   (b) Opening a file ☐

    (c) Transfering a file ☐   (d) None of these ☐

B. Fill in the blanks :

1. WWW stands for _____.

2. _____ is the display of more than one independently controllable section on single web page.

3. A location on a net server is called _____.

4. _____ is a network of many small networks that exist all over the world.

5. The _____ is a combination of text graphics, audio, video etc.

6. Sending and receiving message electronically is called _____.

7. Communication through Internet by text is called _____.

8. _____ is a famous search engine.
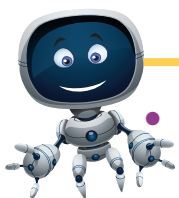
C. Write (T) for true and (F) for false :

1. A web page is the starting page of website.

2. WWW is a major source of information stored on the internet.

3. The @ sign is must in e-mail address.

4. Google.com is a search engine.

5. A website is the digital page of stored information.

6. Telnet is an older utility that lets you log on to remote computer systems.

D. Answer the following Questions :

1. Define internet.

2. Write short note on WWW.

3. What do you understand by hypertext?

4. Mention some uses of Internet.

5. What do you understand by e-mail?

6. Write short note on web page.

7. What is HTTP?

8. Write short note on
   (a) Search engine   (b) FTP
   (c) Telnet   (d) Newsgroup

ACTIVITY

- **With the help of your teacher make note of the following things in youe lab :**

   1. Name of the ISP _____

   2. Modem speed _____

   3. Web browser _____