

Chapter 6

Getting Connected Internet



Recall the instances in previous chapters when

- Muskan shared video of her experiment with her classmate using a messenger app.
- She created a blog and shared the images she clicked when she visited the state museum of Bhubaneswar.
- She thought of placing the song on web which she sang in a school function.
- She started speaking to Hasmukh on Skype instead of telephone.
- She shared the digital album of her birthday with Hasmukh through email.
- She decided to join an online course on puppetry during her summer vacation.

Reflect how all this was possible.

Internet is used to search and gather resources to enhance knowledge and to complete your projects. In earlier times, library was the most sought after place for gathering information from books and encyclopaedias. But nowadays Internet has made it possible to search and gather variety of multimedia resources for learning. Take example of a project on “Role of youth in the development of a nation”.

You can get resources on the above topic from the Internet. These days, almost all information and services are available on the Internet. For logging on to the Internet, you just need an electronic device (preferably computer/laptop/smartphone/tablet) with an Internet connection. You can access a large number of resources and information stored on the World Wide Web (WWW). In order to access the resources in WWW, we need a software called Web Browser. Web browsers are generally present in our computer system. A few popular web browsers have been shown in Fig. 6.1, fill in the blanks with any two other web browsers.

World Wide Web (WWW) is an information space on the Internet where documents and other resources are stored.

A Web browser is a software for accessing information and resources on the World Wide Web.



Fig. 6.1: Web browsers

When you click on the browser icon in your computer, the following window will be opened. On top of the browser window, there is an address bar as shown in Fig. 6.2.



Fig. 6.2: Layout of Mozilla Firefox browser

A Webpage is a collection of information in the form of multimedia resources. The Website is a collection of Webpages.

The address bar let you type the address of the resource which you want to access on the web. Every resource is available in a web page on the web. Once you type the URL in the address bar, the webpage will open from where you can access the resources.

A website contains many webpages. The first page that you see, when you open a website is the Home Page.

Activity 1

- Open the website by typing the address creativecommons.org in the address bar.
- Keeping in mind the title “Role of youth in the development of a nation”, explore resources related to your project.

While exploring the website, you might have noticed that when you hover the mouse over certain text/images, the cursor changes to . This signifies that the text/image is a link to another webpage or resource which is known as Hyperlink.

Activity 2

- List and click on any of the three hyperlinks in the website: **creativecommons.org**

A Search Engine is a tool that allows to search for information on web.

Suppose you are not aware of the URL of the website from where you can access the resources or if you want to search the web for finding more information/resources, you can take help of the Search Engine.

Following are a few popular search engines:

Name	Address
Google	google.com
Bing	bing.com

Yahoo	yahoo.com
Ask	ask.com
DuckDuck	duckduckgo.com

Table 6.1: Popular search engines

To search information/resources using a search engine you need to use keyword in the Search Box as shown in Fig. 6.3.

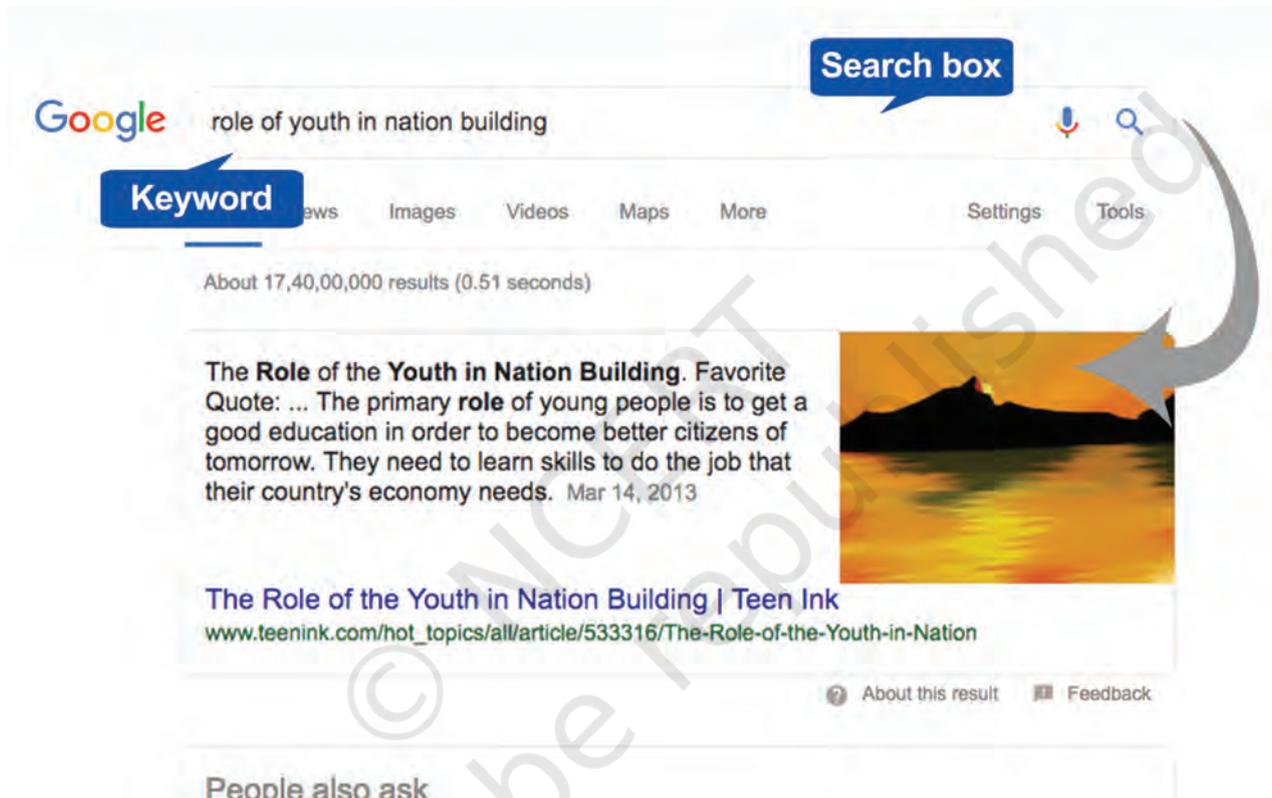


Fig. 6.3: Search Engine

While using search engines, a good plan can save your time. Before searching ask yourself the following questions like:

- What type of information am I seeking (ideas, facts, opinions, options)?
- What form of information am I seeking (text, images, videos)?

According to the above questions, select the keywords. Use words related to the type of information you seek.

Word or phrase entered in the search box helps the search engines to list those webpages which contain that word or phrase. Now for your specific search the entered word or phrase becomes the keyword.

Select precise words and avoid common words, such as the, of, apply etc.

Activity 3

As per the project titled “Role of youth in the development of a nation”, you need to get the information and resources. So you can use the keyword “Role of youth in the development of a nation” in the search engine to search for resources. Explore the result page and answer the following questions:

- What types of multimedia resources you could see?
- Did you find any hyperlinks in the result page?
- How can you get a different result page for the same keyword?
- Were you able to find a result page for your search containing only images?

Did you get what you were looking for, by using the keyword which you had listed above? If not, reframe the keyword by answering the following questions:

- What exactly are you looking for?
- What words will describe your search best?
- What if you want only images related to your keyword?

If you are sure about the type of multimedia resource you are looking for, then the search engine helps you filter the resources based on your requirement. If you notice in the result page, by default the results are displayed under the heading ‘All’ but there are other headings that help you to categorise the search result on the result page as shown below.



Fig. 6.4: Heading in search engine

In order to get a result page containing only images, you can click on the Images heading or if you are looking for only videos, you can click on the Videos heading. This helps to categorise the search based on particular type of resources.

Sometimes while accessing multimedia resources you might come across a prompt asking you to install a 'plug-in' by clicking on the link mentioned in the prompt. Go ahead and click on the link to install plug-in and access the resources.

A plug-in is a software which provides additional functionality to the browser allowing it to display the content.

Activity 4

Use the keywords written in the above graphic organiser to search only for images in search engine.

Note: Whenever you use the resources taken from the web, you should cite reference to the source from where you have taken it. It ensures that you are giving credit to the owner who actually created it.

To plan further for your event and to collect resources according to your requirement, you need to identify the keywords for the programme items. Fill in the graphic organiser depicted in Fig. 6.5 with appropriate keywords for the listed programme items and write programme items of your choice along with keywords for searching resources for these programme items using the search engine.

Documentary	Speech		
<ul style="list-style-type: none"> • Text • Keywords <ul style="list-style-type: none"> • Youth bravery awards • Youth spreading awareness • Videos • Keywords <ul style="list-style-type: none"> • Youth in action • Youth in freedom struggle 	<ul style="list-style-type: none"> • Text • Keywords <ul style="list-style-type: none"> • Youth creating job • Youth responsibility to elders • _____ • _____ 	<ul style="list-style-type: none"> • _____ • Keywords <ul style="list-style-type: none"> • _____ • _____ • _____ • _____ 	<ul style="list-style-type: none"> • _____ • Keywords <ul style="list-style-type: none"> • _____ • _____ • _____ • _____

Fig. 6.5: Identifying keywords

Now you must be comfortable using simple keywords in search engines to collect resources for your event. But if you want to search information/resources very specific to your requirement, then you can do advanced search using search operators like **AND, OR, “ ”**, ... as

mentioned in the table given below. These operators help the search engine to narrow down the focus of search (Refer Table 6.2).

Table 6.2: Search operators

Operator	Example	Purpose
AND	youth AND nation	The result shown will include pages having all the keywords.
OR	youth OR nation	The result shown will include pages having at least one of the keywords.
“ ”	“Role of youth in the development of nation”	The result shown will include pages having the entire keywords.
...	“Role of youth” 1990...2018	The result shown will include pages having the specified number range.

The process of saving the URL of the webpage for future reference is known as Bookmarking.

While searching for resources, you might come across certain web pages which you wish to refer to later. You can take a print out of the web page but that would lead to paper wastage. So instead you can bookmark the web page to enable quick access to the webpage in future. To bookmark the webpage or website, click on the Bookmark icon (which looks like a star) in the address bar as shown in Fig. 6.6.

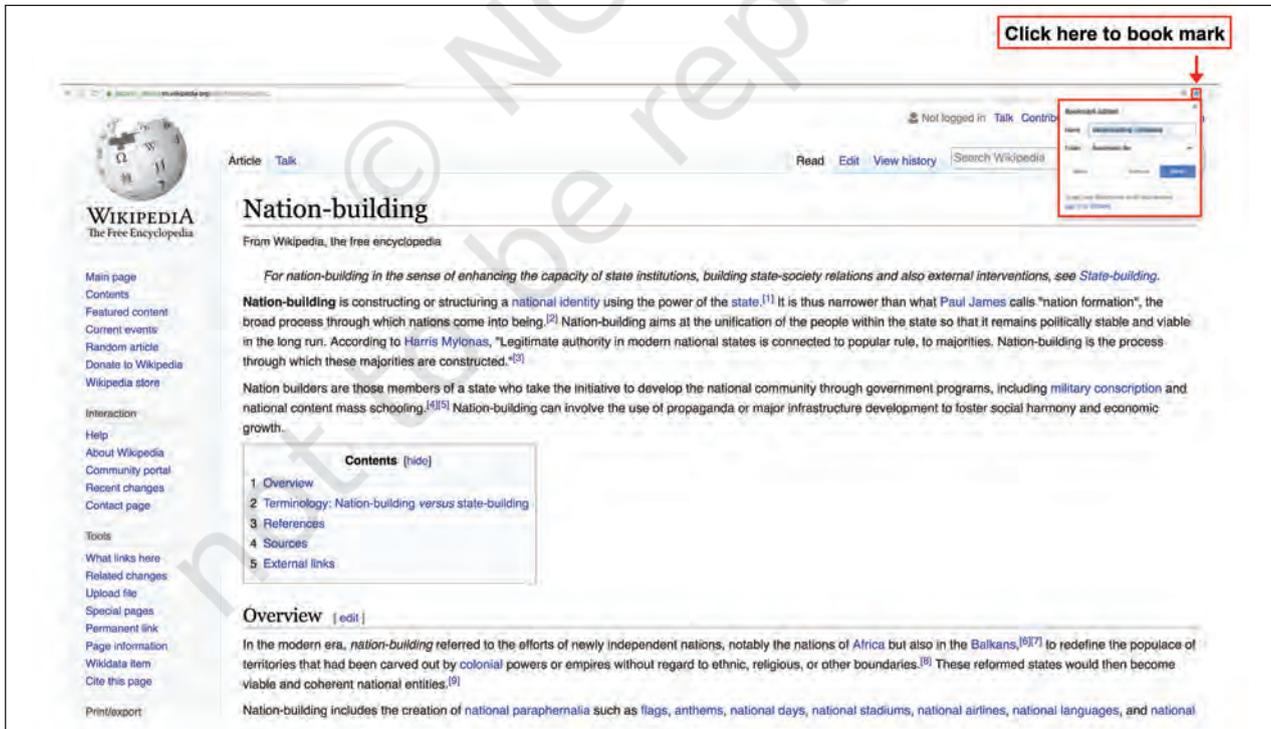


Fig. 6.6: Bookmarking

Evaluation of the Resources

You must have gathered lot of information from the Internet for your event by now. But you should remember that all the information available on the Internet cannot be guaranteed for quality or accuracy. So it is important to evaluate the resource or information. Keep in mind that anyone can publish anything they wish on the Web. It is often difficult to determine the ownership of the Web resources. So it is your responsibility to evaluate the resources effectively based on the following criteria:

- Who has made the website and how to contact the website owner?
- What is the website about? Is it commercial, educational, etc.?
- Is the website for teachers or for students or for both?
- Is the information reliable on the website? Always cross check the given information from other websites and other authentic sources like books, experts, etc.
- Check whether the website offers free information or paid information?

After gathering resources, it is time to make use of them for your event. You might have downloaded text, images, audio, videos related to your programme items. Use your creativity by customising the resources gathered from the web using the ICT tools. You should identify the right ICT tools to prepare the programme using the resources you have gathered.

Layout of Stage Display	• Graphics Editing tool, for example, GIMP
Documentary	• _____
Speech	• _____
_____	• _____
_____	• _____

Fig. 6.7: ICT tools in identification

Safe Practices while Searching

- While searching information for your event on the internet, few questions might have struck your mind like
 - Is the Internet safe for me?
 - How can I differentiate between a real and a fake website?
 - What do I have to do to be a safe user of Internet?

All computer users ask these questions to themselves every day. The Internet offers so many opportunities to explore. But it is important to keep yourself safe and secure, so that you can make the most of it. The tips given below will help you to search the web safely and securely.

- It is always advisable to access resources from websites which have “https” in the URL as it indicates that it is a secured website.
- Make sure the “Safe Search” Setting of the web browser is ON.
- Think twice before clicking the links as it might lead to websites not appropriate for your age.
- Most of the interaction with the Web is through the browser. So the choice of the Web browser should be of utmost priority.

Now you are ready to present a great show with a variety of multimedia resources created by you for the event. Ensure the required hardware resources like projector, speaker, etc., are available to use these multimedia resources during the event. Such remarkable effort will lead to an exceptional result but it is advisable to take feedback and remedial measures to ensure an effective event execution.

You have taken the first step of showcasing a remarkable event that was appreciated by the audience who were present there. With the appreciations you received, you are motivated to share your experience, the photographs and videos taken during the event to your friends.

Activity 5

Can you think of various ways through which you can share your experience with your friends?

You have effectively acquired the skills of searching information using a search engine. Besides searching you can also communicate and share information with the people using Internet. There are many ways of communicating and sharing information on the Internet, one of them is Electronic mail (Email). Emails can be sent from anywhere, anytime through the Internet-enabled devices, such as like PC, laptop, smartphone, etc. To send and receive emails you need to create an account with any of the email service providers some of which are mentioned in Table 6.3.

Table 6.3: Email service providers

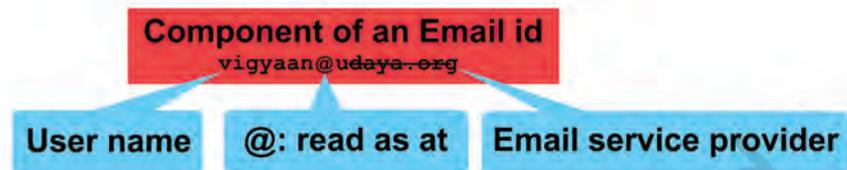
Email Service Providers	URL
Gmail	gmail.com
Yahoo mail	login.yahoo.com
mail	mail.com
Outlook	outlook.com

To create an email account on the email service provider you need to follow the below given steps.

- Type the URL of any of the email service provider in the browser and click Create account/Sign Up/Register.
- Specify a unique username. (The email service provider prompts in case the username is already chosen).
- Choose a strong password consisting of uppercase, lowercase letters, numbers and special symbol(s). Passwords are case sensitive.

- Fill in the mandatory personal information like first name, last name, date of birth, gender, etc.
- Carefully go through the Terms and Conditions before clicking on Agree button.

The account created will be in the format `username@email-service-provider` like `shiksha@gmail.com` or `shiksha@yahoo.co.in`



Checklist for a strong password

Did you

- use combinations of letters (uppercase and lowercase), numbers and symbols?
- use at least six to eight characters?
- set a unique password for each of your important accounts?

Example: 13Hlt@8L

Note: Don't forget to change password frequently.

After creating an email ID you can now use it to share experiences and resources that you have created for the event with your friends who are staying in different cities. To do so, you need to do the following as shown in Fig. 6.8:

- Login to your account
- Click Compose/Write
- Enter your friend's email ID in "To" box
- Write the subject of your email
- Write the content of the message
- Attach your document(s) if needed as shown in Fig. 6.9.

Components of email message

To–Mail ID of the person to whom we want to send the mail.

Subject–It is a description of the topic of the message

Cc (Carbon copy)–Mail ID of the person to whom we want to send the copy of the mail

Bcc (Blind Carbon Copy)–Mail ID of the person to whom we want to send the copy of the mail but these mail IDs will not be visible in the email.

–Attachment icon to insert documents in the mail.

Send–A button which sends the mail when clicked.

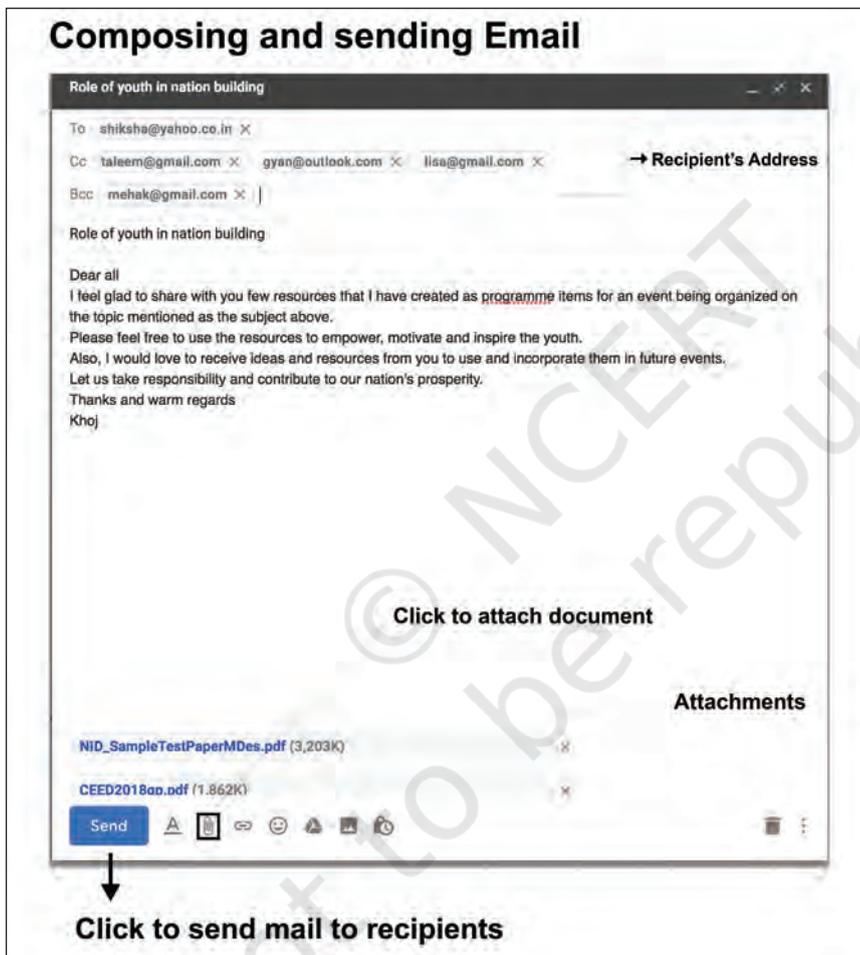


Fig. 6.8: Compose/write an email

Attaching a document to your email is also known as uploading.

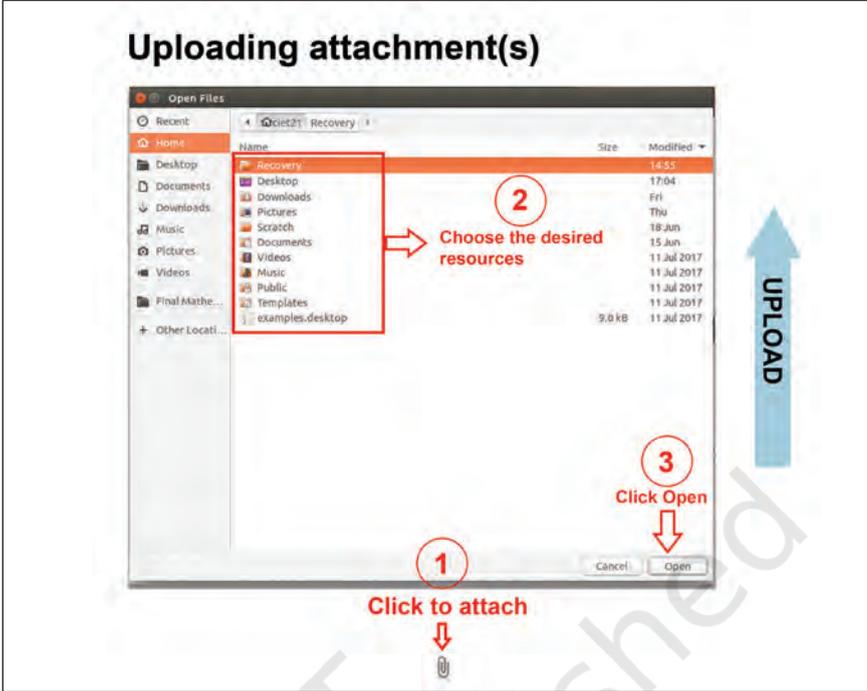


Fig. 6.9: Attaching a document

You have successfully sent the mail to your friends about your event experience with some documents as attachments.

Inbox is an electronic folder in the email account where all the received mails are stored.

One of your friends, Taleem who received your email also shared the script written by him for a similar event that he has planned and is asking for your opinion. You can see his mail in the inbox. You can click on the email to read its content as shown in Fig. 6.10.

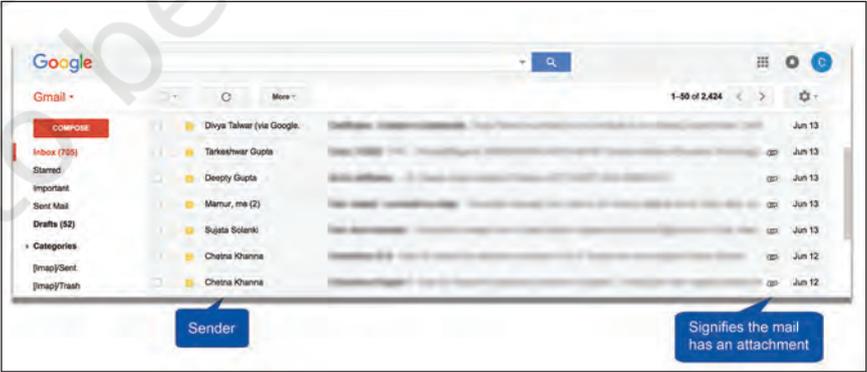


Fig. 6.10: Inbox

If there is any attachment in the mail then you need to be careful and question yourself before downloading the attachment as there is a chance that the attachment is infected with virus.

Checklist for Downloading

Always be alert. An attachment can be a malware, such as virus which are harmful to the computer and its user. So check for the following before proceeding.

- Is it from a trusted source?
- Is it in a known format?
- Did you perform anti-virus scan?

Once you get answers for the above questions positively, and then follow the steps shown in the Fig. 6.11.



Fig. 6.11: Inbox

We learnt how to access the Internet and communicate using email. You must have also heard about the various security concerns in this Internet-based world known as cyber world. The threats associated with technology are largely due to inappropriate use of technology and to expect that all the users will exhibit ideal behaviour is unreal. Hence, it becomes our primary responsibility to exercise caution and at the same time behave responsibly like we do in the real world by setting an example for others. We will learn about safe internet practices in Chapter 7.

A virus is a harmful program which when enters the computer, affects the performance of the computer and destroys its data.

Anti-virus programmes are used to detect and destroy computer virus. Examples of Anti-virus programs are Norton, Kaspersky, McAfee, etc.

Transferring documents/files from Internet to the computer is called downloading.

Exercises

1. Open the websites given below and identify the purpose for which they can be accessed.

Website Address	Purpose
mygov.in	

swayam.gov.in	
ndl.iitkgp.ac.in	
farmer.gov.in	
ors.gov.in	

2. Using a search engine try to find the website address of the following and enter it in the Table given below:

- Indian railways website
- Tourism website
- NCERT website

Searched for	Website Address
Indian railways	
Delhi tourism	
NCERT	

3. Identify keywords and the type of resources required and create multimedia resources (presentation video) on the following topics:

- Technology—the latest trends
- Plastic—A friendly foe

4. Identify the invalid email ID and specify the reason.

- i. Aayush. gmail.com
- ii. School_yahoo.com
- iii. Suhana@rediffmail.com

5. Download your syllabus from the NCERT website. Save it on your device and email it to your friends. Also, send the same syllabus file to your parents.

6. My teacher has asked me to write an essay on 'Green Revolution', and also I need to prepare a list of 'Keywords' for searching information on the topic. I have prepared a list, help me to identify which of the key words are not much useful among the following:

- Agriculture
- Norman Borlaug
- M.S. Swaminathan
- Wheat farming
- Dairy farming
- Fish farming
- Crop yield
- Genetically modified crops
- Biotechnology