

## Lesson 1 - Hardware Components

### New Words

ethernet	arithmetic	access	peripheral	versatile
multimedia	sequential	pixel	dimension	frequently

### Expansions

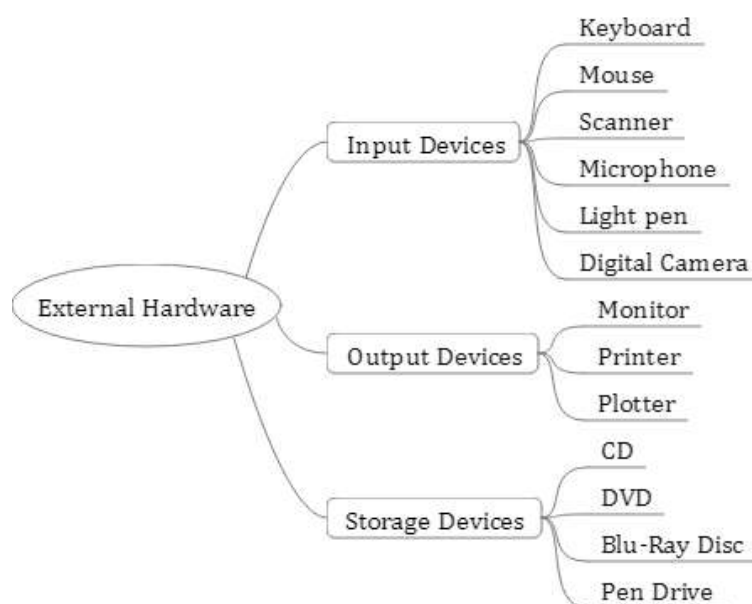
- AGP - Accelerated Graphics Port
- BIOS - Basic Input Output System
- CRT - cathode ray tube
- LED - Light Emitting Diode
- LCD - Liquid Crystal Display
- PCB - Printed Circuit Board
- CAD - Computer Aided Design
- VGA - Video Graphics Array
- SMPS - Switched Mode Power Supply

### Important Points

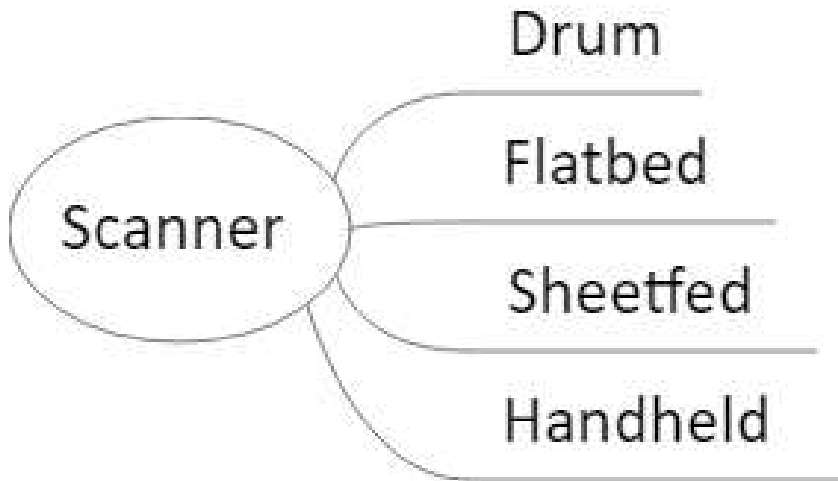
- *Hardware*: The physical components of a computer system which are tangible.
  - E.g. Internal Hardware and External Hardware
- *Software*: It refers to the set of programs, which are required to operate the computer system.
  - E.g. System software and Application Software

Internal Hardware	External Hardware
The Hardware Components which are fixed inside the CPU cabinet	The Hardware components which are connected to the computer, these components are also known as peripherals
Motherboard, CPU, RAM, ROM, SMPS, Heat Sink	Input, Output and Storage Devices

### GO on External Hardware Components of a Computer



## GO on types of scanners



Internal Hardware Components	Usage
<b><i>Motherboard</i></b>	It is also known as the PCB. It holds many crucial components of a computer system.
<b><i>CPU</i></b>	It is also referred to as a microprocessor. It carries out each instruction of a program in a sequence to perform the basic operations of the system.
<b><i>Disk Drive</i></b>	It enables you to read, write ,delete and modify data on a storage disk.
<b><i>SMPS</i></b>	It is also known as the power supply unit. It converts the input high voltage electric current to low voltage and supplies it to the motherboard and other parts of the computer
<b><i>Heat Sink</i></b>	It is designed to disperse the heat generated by the CPU
<b><i>Ports</i></b>	The cabinet has several connection ports for connecting specific external input or output devices.

### Fact File

1. Intel i9 12th gen is the best gaming processor.
2. The largest capacity of USB 3.0 is 1 TB

## Lesson 4 – Ethics And Safety Measures

### New Words

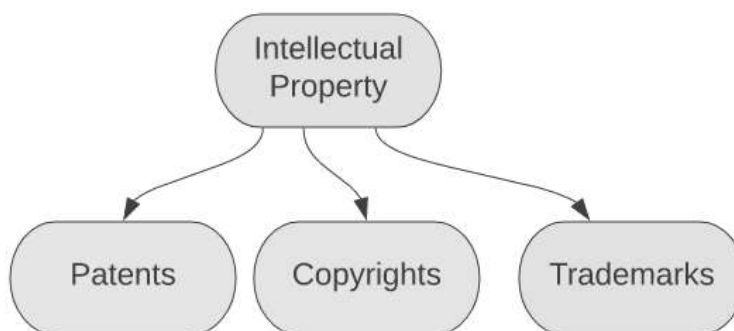
ethics	communication	plagiarism	acknowledgement	citation
convenient	encryption	cyberbullying	phishing	cracker

### Definitions

1. **Computer Ethics:** Set of moral Principles that regulate the use of computers.
2. **Plagiarism:** It is the act of copying or stealing someone else's words or ideas and passing them off as your own work.
3. **Citation:** Acknowledging the original writer and source from where material has been collected is called citation.
4. **Cyberbullying:** The use of electronic communication to bully a person, typically by sending messages of an intimidating or threatening nature.
5. **Hacking:** An unauthorized intrusion into a computer or a network. The person engaged in hacking activities is known as a hacker/cracker.
6. **Phishing:** is the fraudulent attempt to obtain sensitive information such as usernames, passwords and credit card details by disguising as a trustworthy entity in an electronic communication.
7. **Software Piracy:** Illegally using, copying or distributing software without ownership or legal rights.
8. **Digital Footprint:** It is a log of the data that is created while using the Internet. It includes the websites that are visited, emails sent and information submitted to online services.

### Important points

1. A cookie is a small text file stored on your computer's browser directory that collects the information of your online activity and reports back to the host.
2. G.O representing the Intellectual Property Rights:



a.

### Fact File

Sangeet Chopra is one of the most popular ethical hackers and an IT security specialist in India.

## Lesson 6 - More Features of Spreadsheets

### New Words

editing	copying	moving	autofill	command
formula	analyze	contiguous	extended	content

### Important Points

1. Autofill : The autofill feature enables us to fill a range of cells with a series of data without typing it
2. Difference between Undo and Redo commands

Undo	Redo
This command cancels the last action performed by the user in a worksheet	This command reverses and restores the last action performed by the user in a worksheet

### 3. Tabular form on tabs and groups for different options in MS-Excel

Option	Tab	Group
To insert a row,column and cell	Home	Cells
To Delete a row,column and cell	Home	Cells
To Move,copy and paste	Home	Clipboard
To merge cells	Home	Alignment

### 4. Shortcut Keys

Option	Shortcut Key
To select the entire worksheet	Ctrl + A
To insert a row	Ctrl + R
To insert a column	Ctrl + C
To Undo	Ctrl + Z
To Redo	Ctrl + Y
To copy the data	Ctrl + C
To move the data	Ctrl + X
To paste the data	Ctrl + V

## Fact File

In MS-Excel, user can minimize and maximize the worksheet by pressing ctrl + F10 key combination

## Lesson 8 - Advanced features of HTML

### New Words

attribute	unordered	bulleted	radio	float
checkbox	anchor	pixel	align	property

### Important Points

1. Different types of lists we can create in an HTML document are
  - unordered List
  - Ordered List
2. Differences between ordered list and unordered list

ordered list	Unordered list
Ordered list is a numbered list	Unordered list is a bulleted list
It is used when the items have a specific order.	It is used when the items don't have a specific order.
The list is enclosed within <ol> and </ol> tags	The list is enclosed within <ul> and </ul> tags

### 3. Inserting Images

- HTML allows insertion of many different image formats such as GIF (Graphics Interchange Format) and JPEG (Joint Photographic Expert Group). Inserting images will enhance the look of the webpage.

Attribute	Use
src	It specifies the URL of the image to be displayed in the document.
Height and Width	It specifies the height and width of the image in pixels.
Float Property	It specifies the alignment of the image either to the right or left of the text.
Alt	It specifies an alternative text that the browser displays, if the image is loading or cannot display.

### 4. Hyperlink

- A website is a collection of webpages. These pages are linked to each other through hyperlinks. The two different types of Linking
  - i. Internal Linking
  - ii. External Linking
  - iii.

## 5. Anchor Tag and its attribute

- It is used to create a hyperlink in a webpage. It is a container tag.
- Href is an attribute of the anchor tag that specifies the page or file to which the link is directed.
- `<a href="https://www.jgschool.org">My school</a>`

## 6. Tables in HTML

○

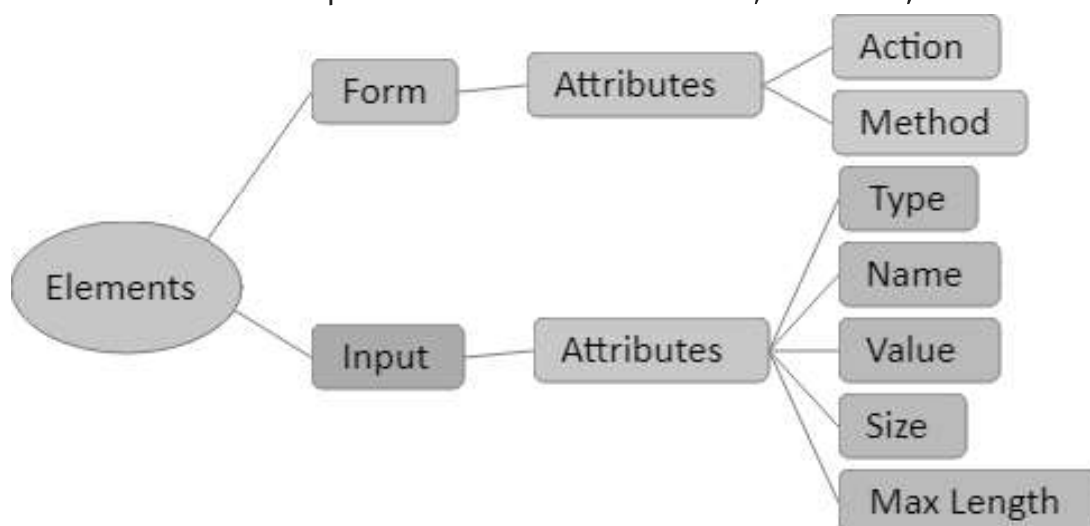
Tag	Usage	Syntax
<i>Table tag</i>	Used to define tables in html.	<code>&lt;table&gt;.....&lt;/table&gt;</code>
<i>Table row tag</i>	Used to define a horizontal row of cells.	<code>&lt;tr&gt;.....&lt;/tr&gt;</code>
<i>Table data tag</i>	Specifies an individual block or cell in a table row.	<code>&lt;td&gt;.....&lt;/td&gt;</code>
<i>Header cell</i>	Used to define the header for a column or row.	<code>&lt;th&gt;.....&lt;/th&gt;</code>

## 7. Forms

- It is used to collect the information from the user in a systematic way. The form tag is used to create an HTML form. It is a container element. The forms are classified into three sections.
  - Form Header
  - Input Fields
  - Action button

## 8. Forms

- A form that contains special elements like text field, checkbox, radio buttons etc.



○

### Fact File

The Languages HTML (Hyper Text Markup Language) and XML (Extendable Markup Language) are both derived from DHTML (Dynamic HyperText Markup Language).