LESSON 8

Output Devices

Objective of this Chapter

Introduction

Both input & output play an important role to complete a task on computer, because output allows the user to decide what to do next with the information. We have learnt in previous chapter about input devices. Now we will study about various output devices in this chapter.

8.1 Output devices

An **output device** is any computer hardware equipment used to communicate the results of data processing carried out by an information processing system (such as a computer), which converts the electronically generated information into human-readable form. Output devices are connected to computer and these are used to show data in term of sound, text and images. They are used to get result of computer. In other words these devices get output from the computer.

Uses of output device : Output devices are used to get information from computer. Whether it can be sound or in text form of that information. Whatever the computer has done is predicted by output devices.

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8.2 Types of output devices

Every Output device has its own work. **Commonly Output devices are:-**

➡ Monitor

➡ Printer

➡ Speaker

➡ Headphone

➡ Plotter

➡ Projector

8.3 Monitor

It is most commonly used output device. It is a soft output device which looks like a television. It shows output on its screen.

Here are two kinds of viewing screen used for monitors.

➡ Cathode-Ray Tube (CRT)

➡ Flat- Panel Display

8.3.1 Cathode-Ray Tube (CRT) Monitor

. Many Types of CRT monitors are available in the market. CRT Monitor size is measured by diagonal length of the screen. Monitors are available in 15",17",19 and 21". Earlier black and white monitors were used but now we use coloured monitors. Such monitors display coloured pictures.

Figure 8.1 CRT Monitor

There are some disadvantages of CRT :

➡ Large in Size

➡ High power consumption

➡ Heat dissipation

8.3.2 Flat-Panel Display Monitor:

The flat-panel display refers to a class of video devices that have reduced volume, weight and power requirement in comparison to the CRT. You can place them on walls. Current uses of flat-panel displays include calculators, video games, monitors, laptop computer, graphics display. Some example of Flat-Panel Display monitors are LCD, LED, Plasma etc

Figure 8.2 Flat Panel Display Monitor

8.4 Speaker

Speaker is an output device. They receive audio **input** from the computer's **sound card** and produce audio **output** in the form of sound waves. It is used to listen sounds from computer. You can listen songs from computer. Speakers are present in different shapes. Generally there are two speakers attached with one computer.

Fig. 8.3 Speakers

8.5 Head Phone

Sometimes referred as **earphones**, **headphones** are a hardware device that either plugs into your computer **(line out) or speakers** and allow you to privately listen to audio without disturbing anyone else.

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Fig. 8.4 Headphone

8.6 Printer

Printer prints output on paper. It is a hard output device. The output of printer is permanent. Its record can be preserved for long time. Printers of different types with speed resolution and size are available in the market. Printer are black and white as well as colored. Colored printers give coloured printout. These are of three types :

➡ Dot matrix Printer
➡ Inkjet Printer
➡ Laser Printer

8.6.1 Dot Matrix Printer

It is a type of computer printer which uses a print head that moves back & forth or in up and down motion on the page and print by impact. It prints by joining dots,. It is cheaper. Its speed is slow. It produces sound while working. The resolution of its printing is poor.

Fig. 8.5 Dot Matrix Printer

8.6.2 Inkjet Printer

It is a type of computer printer that creates a digital image by throwing droplets of ink on to a paper. It printing quality is better than dot matrix

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printer. We can print graphical images with a good quality. It is coloured printer. It is very cheap. It does not produce sound while working. Its speed is faster than dot matrix printer.

Fig. 8.6 Inkjet Printer

8.6.3 Laser Printer

Laser printer is a electro static digital printer. It produce high quality & graphics by passing laser beams. These are both black and white as well as coloured. These are costly. Their speed is fastest of all other printers.

Fig. 8.7 Laser Printer

8.7 Plotter

Plotter is an output device. A device that draw picture on paper based on command from a computer. Plotter differ from printer in that they draw lines using a pen. As a result they can produce continues lines where as printer can only simulate lines by printing a closely spaced series of dots. Multicolor plotter use different colored pen to draw different colors. It is used in computer aided designing. Plotter are more expensive than printer. They are use in engineering applications.

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Fig. 8.8 Plotter

8.8 Projector

A projector is an **output device** that can take images generated by a computer and reproduce them on a large, flat (usually lightly colored) surface. For example, **projectors** are used in meetings & multimedia presentations to help ensure that all participants can view the information being presented.

Fig. 8.9 Projector

There are also many devices that are used for both Input and Output. For example

1.   Digital Camera
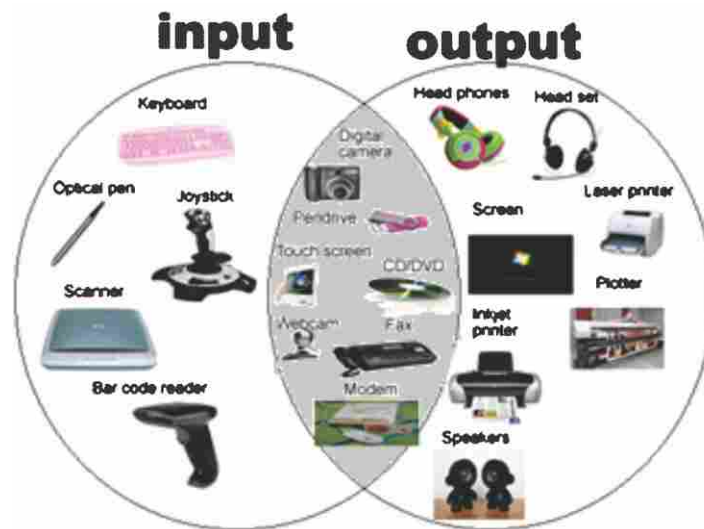2.   Pen Drive
3.   CD/DVD
4.   Modem
5.   Fax

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Fig. 8.10

Points to Remember

1. Output devices are used to get information from computer.
2. Monitor is a soft output device it shows text and pictures on the screen.
3. Printer is hard output device. It prints output on paper.
4. Printers are of many types like Inkjet, Dot-matrix and Laser.

Exercise

1. **Fill in the Blanks using the right option :**

   1. Monitor is soft and …………… is hard output device.
      (1) Printer   (2) Plotter
      (3) Both of these   (4) None of these.

   2. …………… is used to listen sound from computer.
      (1) Printer   (2) Speaker   (3) Microphone (4) Mouse

   3. …………… prints output on paper.
      (1) Printer   (2) Keyboard   (3) Mouse   (4) Speaker

   4. …………… printer prints by joining dots.
      (1) Dot matrix (2) Inkjet   (3) Laser   (4) None of these

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5. Monitor are of …………… types.

(1) Two   (2) Three   (3) Four   (4) Five

6. Headphones are also called …………… .

(1) Earphone   (2) iphone

(3) Both of these   (4) None of these

2. Write down True or False :

1. Output devices are used to get information from computer

2. We cannot listen music from computer.

3. Printer is soft output device.

4. There is no difference between Printer & Plotter.

5. Nowadays black & white monitor are in use.

3. Short Answer type Questions :

1. List the four types of output device?

2. Write the types of monitor

3. Where are projector used?

4. List the types of printer.

5. Write a note on Plotter?

4. Long Answer type Questions :

1. Write note on monitor and its types ?

2. What is printer? Explain three types of Printer.

3. Write difference between CRT&Flat panel display.

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