

19/05/21
Wednesday

Chapter- 2 :

①

Measuring the computer's Memory

Byte :

* The basic unit for measuring the memory of a computer is byte

* A byte is usually enough to store a single character,
├ letter
└ Number

Secondary Storage devices

Storage capacity

pen drive → 8 GB

Hard disk → 1 TB

3.5 inch floppy disk → 1.44 MB

digital versatile disc → 4 GB

compact disc → 700 MB

Nibble : * A group of 4 bits is known as nibble

* 1 nibble - 4 bits - half byte

Answer these Questions.

① What is machine language?

Ans: * It is a language only understood by a computer machine.

* It is a language made up of 0s and 1s.

② Can we give commands to a computer in machine language?

Ans: Yes we can give commands to a computer in machine language.

③ What are binary digits?

Ans: The digits 0 and 1, which the computers work with are called binary digits or bits.

④ Define a byte?

Ans: * A byte is the basic unit for measuring the memory of a computer.
* It consist of group of 8 bits.

⑤ Ans: gigabyte and terabyte the larger units other than kilobyte and megabyte used to measuring computer's memory.



TEST YOURSELF

A. Tick (✓) the correct answer.

- Computers use and store information using only
 - 0 and 1.
 - 2 and 3.
 - 4 and 5.
- 1 byte equals to
 - 9 bits.
 - 8 bits.
 - 10 bits.
- A half byte is a
 - KB.
 - MB.
 - nibble.
- Which of the following is a secondary storage device?
 - Pen drive
 - Monitor
 - Keyboard
- The storage capacity of a compact disc is
 - 700 MB.
 - 200 MB.
 - 100 MB.

B. Write the full form of the following.

- | | | | |
|-------|----------|-------|----------|
| 1. KB | Kilobyte | 3. GB | gigabyte |
| 2. MB | megabyte | 4. TB | terabyte |

C. Fill in the blanks.

- | | | | | | |
|-----------|------|-------|-----------|------|----|
| 1. 1 KB = | 1024 | bytes | 3. 1 GB = | 1024 | MB |
| 2. 1 MB = | 1024 | KB | 4. 1 TB = | 1024 | GB |

D. Arrange these units in descending order of their magnitude.

- bit terabyte kilobyte megabyte byte gigabyte
- Terabyte → Gigabyte → Megabyte → Kilobyte → Byte → bit

E. How many bytes does it take to store the following in the computer's memory?

- ▶ This is my book.

CHECK YOUR PROGRESS

Tick (✓) the correct statements and put a cross (X) against the wrong ones.

1. Computers process and store information using 1 and 0 only. ✓
2. A 1 or 0 is called a binary digit. ✓
3. A group of 6 bits is known as a nibble. X
4. TB is the short form of terabyte. ✓
5. Both RAM and hard disk capacities are measured in bytes. ✓