

Q 5) Answer the following questions.

b. what are computer language?
classify them.

→ A computer language is used to write a set of instructions for the computer to perform a particular task.

computer language are broadly classified as,

1) Low level language: →

a) Machine language:-

b) ASSEMBLY language:-

2) High level language: →

C, C++, Java, python, @BASIC etc.

c) state one difference between Machine language and assembly language.

Machine language

Assembly language.

1) Data only represented with the help of binary format (0s & 1s)

1) Data can be represented with the help of mnemonics such as mov, add, sub, END etc.

2) It is very difficult to understand by human beings.

2) Easy to understand by human being.

b. what are language processors ?
classify language processors.

→ A language processor is a special type of software that converts a source code to machine code.

→ There are 3 types of language processor.
• Assembler, Interpreter and Compiler.

- Assembler : → used to convert program written in assembly language to machine language.

- Compiler : → Used to convert an entire program written in High-level language to machine language.

- Interpreter : → used to convert each line to machine language & execute it.