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In another words we can say that programming languages are used to develop program to instruct the computer to perform a specify task.

* Program:- A program may be defined as a set of related instruction to perform a given task.

→ Types of Programming languages:- All the programming languages can be classified into following three categories.

- a) Low level language or machine level language or binary language.
- b) Assembly language.
- c) High level language.

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1) Low level language:- Programming in low level language is done with the help of zeros & ones.

Since, the code written in low level language is directly executed on the machine. Therefore such type of languages are also known as machine level language. Since only two symbols are used zero's & one's are used. Therefore it is also known as binary language.

* Advantages

- i) No translator is required.
- ii) Execution is faster.

* Disadvantages

- i) Difficult to learn and code.
- ii) Process was very lengthy.
- iii) If user will make any mistake it's difficult to find out.

2) Assembly language:- In Assembly language programming is done with the help of short abbreviations a command called mnemonics, like ADD, for addition. SUB for subtraction etc.

Since the code written in assembly level language can not be directly executed on the machine. Therefore a translator called assembler is required which converts the assembly

level language code into equal and Binary code for execution on the machine.

* Advantages:-

- i.) Easier to learn and understand as compare to binary language.

* Disadvantages:-

- i.) Translator is required.

- ii.) Execution is slower as compare to binary.

- 3) High level languages:- High level languages are introduced to make programming more simpler in high level languages programming is done with the help of English like syntax. Since the code written in high language can not be directly executed on the machine therefore translators are required called compiler & interpreter are required.

• Advantages:-

- i) Easy to learn and code as compare to previous languages.

