

Good Morning Students,

Students, this lesson is for class VI, for the subject of Computers. Topic is 'Categories of Computer Languages', which is covered in chapter '1' starting on page no. '10' of your text book titled 'logix 6' and is being submitted to you on 15.04.24

So, I hope all the students are ready for today's lesson. The name of the topic is 'Categories of Computer Languages'. Children as you know that language is a medium of communication that we all use to communicate with each other, similarly various computer languages are used to communicate with computer system.

Types of Computer Languages :- children, let us learn different types of computer languages.

1. Machine language :- It is also known as First Generation language. It is in the form of '0' and '1' that is also called as binary language. This language is considered as low level because it is very difficult to write programs in it. But computer understands only '0' and '1' form.

2. Assembly language :- This language use codes or symbols in place of '0' and '1'

This is also called as Second Generation language. It is easier to work in Assembly language than Machine language.

3. High Level language :- This language is also known as Third Generation language.

This is simple and user friendly which means this language uses english language, that a user can easily understand. It is not machine dependent. For eg. C, C++, Java etc.

Students, I am giving you three minutes break. During break try to answer the following questions-

1. _____ language uses mnemonic codes or symbols.
2. _____ language consists of binary number 0 and 1.

before starting our next computer languages, let me give you answers of the questions asked during break.

Ans.1. Assembly language

Ans.2. Machine language

Children, let us resume our topic

4. Fourth Generation language :- This language is closer to human language than other high level language and are accessible to people without formal training as programmers. For eg. Structured Query language.

Children, in next topic we will learn about the language processors.

Language Processors :- It is the software which is used to convert the high level languages into machine language because computer understands only '0' and '1' form that is machine language. Different types of language processors are discussed below:-

1. Assembler :- It is used to convert assembly language into machine language.
2. Interpreter :- This translates the high level language into machine codes. This translates instructions line by line that is why the execution speed is slow.
3. Compiler :- Compiler translates High level language into machine code but it converts the whole program at once, so its execution speed is faster.

children, I am ending the lesson here. Kindly read the assignment carefully and also try to solve part A, B and C given on page no. 14 and 15