

1.What is programming language ?

ANSWER:-

A programming language is a formal language that is used to communicate instructions to a computer. It is used to create software, applications, and systems that can run on a variety of platforms. Examples of programming languages include C++, Java, Python, and JavaScript.

2.Why do we need a programming language ?

ANSWER:-

Programming languages are necessary because they provide a way for humans to communicate with computers. They allow us to give instructions to the computer in a way that it can understand and execute. Without programming languages, we would have to communicate with computers in their native machine language, which is difficult and time-consuming for humans to read and write. Programming languages also provide a structure and set of rules that make it easier to write and understand code, and to create efficient, reliable, and reusable software.

3.What are the features of java ?

ANSWER:-

Some of the key features of the Java programming language include:

- 1.Object-oriented: Java is based on the object-oriented programming paradigm, which means that the language is designed around objects and the methods that operate on those objects.
- 2.Platform-independent: Java code can run on any platform that has a Java Virtual Machine (JVM) installed, making it highly portable.
- 3.Memory management: Java automatically manages memory allocation and deallocation, which helps to prevent memory leaks and other issues.
- 4.Concurrency: Java provides built-in support for concurrent programming, allowing multiple threads to run simultaneously.
- 5.Exception handling: Java provides a robust exception handling mechanism that allows developers to handle errors and exceptions in a structured way.
- 6.Garbage collection: Java has an automatic garbage collection feature that reclaims memory occupied by unreferenced objects.

4.what is an object ?

ANSWER:-

Object is an entity with state and behaviour.

Object is instance of the class.

5.What is a class ?**ANSWER:-**

Class is a collection of objects that has similar traits,behaviour and attributes.

6.Explain about the main() method in java ?**ANSWER:-**

```
public static void main(String []args);
```

Is known as main method in java.It is the entry point to the program.From here only the JVM starts working.This is the particular syntax in java that understood by JVM.

The name of the main method is always main() only.

Public is for visibility.

Static is a access specifier.JVM works without creation of the object by using status .

Void is the return type of the main method.

main() is the name of the method.

String []args were the parameters given in the method.