

Fundamentals of Java

Q1-What is Programming language?

Ans-A programming language is a type of written language that tells computers what to do.

Exp are: Python, Java, C, C++. Programming languages are used to write all computer programs and computer software.

Q2-Why do we need a programming language?

Ans-Programming language uses classes and functions that control commands. The reason that programming is so important is that it directs a computer to complete these commands over and over again, so people do not have to do the task repeatedly.

Q3-What are the features of Java?

Ans-The most features of Java are Platform Independent and Object Oriented and other features of java are: Portable, Robust, Secure, Interpreted, Multi-Threaded, Simple etc.

Q4-What is an Object?

Ans-An object is a software bundle of variables and related methods. An entity that has state and behavior is known as an object as like- chair, bike, marker, pen, car, etc. It can be physical or logical.

Q5-What is a class?

Ans-A class in the context of Java is a template used to create object and to define object data types and methods. Classes are categories, and objects are items within each category. All class object should have the basic class properties.

Q6-Explain about the main() method in java?

Ans-A main() method in java is an entry point to start the execution of a program. Every Java application has at least one class and at least one main method.

Let's see a brief explanation and purpose of each of the terms used in the main method.

- 1. public:** The public modifier makes it accessible from anywhere in the application.
- 2. static:** The static modifier makes it a class method so that it can be called using the

class name without creating an object of the class.

3. void: The return type of the main method is void which means that it does not return a value to its caller. You must specify void when you declare the main method.

4. main: It is the name of a method where execution will start. In Java, the main method is called by JVM.

5. String[] args: The main method accepts one argument of type String array (String[]). The square brackets [] represent the array of strings that is passed as an argument to this method.