1. A programming language is a formal, structured system of communication used to instruct a computer or software to perform specific tasks. It consists of syntax and semantics that programmers use to write code for software development.

2. We need programming languages for several reasons:

- Communication with computers: They serve as a bridge between human understanding and machine execution.

- Software development: They enable programmers to design, build, and maintain software applications.

- Automation: Programming languages are used to automate repetitive tasks and streamline processes.

- Problem-solving: They provide a means to solve complex problems through algorithm implementation.

3. Features of Java include:

- \*Platform Independence\*: Java code can run on any platform with a Java Virtual Machine (JVM).

- Object-Oriented: Java is based on an object-oriented programming paradigm.

- Robust: It provides features for error handling and memory management.

- Security Java offers security features like sandboxing and access control.

- Multi-threading: It supports concurrent execution through multithreading.

- Rich Standard Library: Java includes a vast standard library for various tasks.

-High Performance: It's known for its Just-In-Time (JIT) compilation.

4. An object, in the context of programming, is an instance of a class. It represents a real-world entity or concept and encapsulates both data (attributes) and behavior (methods/functions). Objects are the fundamental building blocks of object-oriented programming (OOP).

5. A class is a blueprint or template for creating objects in object-oriented programming. It defines the attributes (data) and behaviors (methods/functions) that objects of the class will have. In other words, a class is a model for creating objects with specific characteristics and functionality.

6. In Java, the main() method is the entry point for a Java program. It has the following features:

- It's a public and static method.

- It has a specific signature: public static void main(String[] args).

- The JVM (Java Virtual Machine) calls the main() method when you execute a Java program.

- It allows you to start the execution of your Java application.

- You can pass command-line arguments to the main() method via the String[] args parameter