

# Fundamentals of java Assignment

Q1. What is Programming language?

**Ans:-** A programming language is a formal set of instructions and rules used to communicate with a computer and create software. It allows developers to write programs that a computer can interpret and execute to perform specific tasks.

Q2. Why do we need a programming language?

**Ans:-** We need programming languages to communicate with computers and create software, enabling us to automate tasks, solve problems, and build systems

Q3. What are the features of Java?

**Ans:-** Java is a widely-used, versatile programming language known for its robustness and platform independence.

Q4. What is an Object?

**Ans:-** An object is a fundamental unit of an object-oriented program. It is an instance of a class, which is a blueprint or template that defines the properties and behaviors that the objects created from the class will have.

Q5. What is a class?

**Ans:-** A class is a blueprint or template used to define the structure and behavior of objects. It encapsulates data (fields or variables) and methods (functions) that operate on that data. Classes provide the foundation for creating objects, which are instances of the class.

Q6. Explain about the main() method in Java?

**Ans:-** The main() method is the entry point for any Java application. It is the method that is first executed when you run a Java program. Without a main() method, the Java Virtual Machine (JVM) would not know where to start the execution of the program.