

# Fundamentals of Java.

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Q1) What is programming language?

⇒ A programming language is a formal language used to write instructions that a computer can interpret and execute. These instructions are commonly called "code" and are used to create software applications, websites, and other computer programs.

Q2) Why do we need a programming language?

Ans) We need programming languages because they provide a standardized way of communicating with computers and telling them what to do. It would be very difficult for humans to communicate with the computer in a way that computer understand and execute.

Q3) What are the features of Java?

Ans) The primary objective of Java language creation was to make it portable, simple and secure programming language. Some features are

- i) Simple
- ii) object oriented
- iii) Portable
- iv) Platform independent
- v) Secured
- vi) Robust
- vii) Multithreaded
- viii) Exception handling.



Q4) What is a class?

Ans) Class is a template or blueprint that defines the properties and behaviours of an object. A Java class contains data members (fields) and methods, which are used to manipulate the data members.

Q5) What is an object?

Ans) Object is a member (also called an instance) of a Java class. Each object has an identity, a behavior and a state. It is created using 'new' keyword. The state of an object is stored in fields (variables), while methods (functions) display the object's behavior.

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

Ans) The main() is the starting point for JVM to start execution of a java program. Without main() method, JVM will not execute the program.

Syntax

```
Public static void main (String[] args) {
```

Public - This is an access specifier that indicates that the method is accessible from anywhere in the program.

Static - This is a keyword that indicates that the method belongs to the class itself, rather than to any particular instance of the class.

void - This is the return type of the method, indicating that the method does not return any value.

main - This is the name of the method.

String [] args - This is a parameter

that takes an array of strings, which can be used to pass arguments to the main() method.