

Day 6 Assignment (26/01/2023)

Ques 1: - What is a Programming language?

Ans: - A programming language is a **computer language** that is used by **programmers (developers) to communicate with computers**. It is a set of instructions written in any specific language (C, C++, Java, Python) to perform a specific task.

Ques 2: - Why do we need a programming language?

Ans: - The major need for the programming language is to communicate with the computers and also programming languages are used to develop an application for performing a specific task, automating things, etc.

Ques 3: - What are the features of Java?

Ans: - Features of Java are: -

- Simple
- Object-Oriented
- Platform Independent
- Portable
- Robust
- Secure
- Interpreted
- Multi-Threaded

Ques 4: - What is an object?

Ans: - A Java object is a **member (also called an instance) of a Java class**. Each object has an identity, a behavior, and a state. The state of an object is stored in fields (variables), while methods (functions) display the object's behavior.

Ques 5: - What is a class?

Ans: - A class is **a group of objects which have common properties**. It is a template or blueprint from which objects are created. It is a logical entity.

Ques 6: - Explain about the main() method in Java?

Ans: - **public:** It is an access specifier. We should use a public keyword before the main() method so that JVM can identify the execution point of the program. If we use private, protected, and default before the main() method, it will not be visible to JVM.

static: You can make a method static by using the keyword static. We should call the main() method without creating an object. Static methods are the method which invokes without creating the objects, so we do not need any object to call the main() method.

void: In Java, every method has the return type. Void keyword acknowledges the compiler that main() method does not return any value.

main(): It is a default signature which is predefined in the JVM. It is called by JVM to execute a program line by line and end the execution after completion of this method. We can also overload the main() method.

String args[]: The main() method also accepts some data from the user. It accepts a group of strings, which is called a string array. It is used to hold the command line arguments in the form of string values.

Submitted By: -

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