Fundamental of Java–Assignment

Question 1: -**What is 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.A programming language is mainly used to develop desktop applications, websites, and mobile applications.

Question 2: -**Why do we need a programming language?.**

Ans: -Need of programming is to make human life better and easier.It does so because computer programs can perform a set of tasks once we define them clearly.
Hence we can use a computer to solve our day to day problems by providing clear instructions rather than solving it by ourself.This saves a lot of human time and energy so that we can concentrate on other challenging tasks that cannot be automated.

Question 3: -**What are the features of Java?**

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

Question 4: -**What is an Object?**

Ans: -An object is a software bundle of variables and related methods.An entity that has state and behaviour is known as an object e.g., chair, bike, marker, pen, table, car, etc. It can be physical or logical (tangible and intangible).

Question 5: -**What is 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. It can't be physical.A class contain Fields,Methods,Constructor,Blocks and interfaces.

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

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

Syntax:

public static void main(String args[]).

Here.

Public: Public is an access specifier we should use public before creating the main method because of JVM .If we use private or protected or default for creating the main method then it will not be visible to JVM .

Static: We use the static keyword for creating the main() method because we should call the main method without creating an object .

void: In Java, every method has the return type. Void keyword acknowledges to the compiler that the 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.