ASSIGNMENT QUESTIONS

Fundamentals of JAVA

Q.1) What is Programming Language?

Ans: **Programming Language is a set of instruction or rules that simplify the environmental mathematical problems.**

Q.2) Why do we need a programming language?

Ans: **To simplify the environmental mathematical problems.**

Q.3) What are the features of Java?

Ans:

Platform Independent:

Compiler converts source code to byte code and then JVM(java virtual machine) executes the bytecode. This bytecode can run on any platform like it be Linux,Windows, or macOs which means if we compile a program on windows, then we can run it on Linux and vice versa. Each OS has different JVM, but the output produced by all the OS is the same after the execution of the bytecode.

Object-Oriented Programming Language:

Creating a program by using multiple objects is knows as object-Oriented Programming.

The four main concepts of oops are:

~Abstraction

~Encapsulation

~Inheritance

~Polymorphism

Simple:

Java is one of the simple languages as it does not have complex features like pointers, operator overloading, multiple inheritances, and Explicit memory allocation.

Secure:

In java, we don't have pointers, so we cannot access out-of-bound arrays.

Potable,Multithreading,High performance,Dynamic flexibility.

Q.4) What is an Object?

Ans: Object is an variable whose data type is user defined.

Q.5) What is a class?

Ans: Class is an data type whose definition is written by the programmer.

Q.6) Explain about the main() method in java?

Ans: main() method is the most important method in java program. This is the method which is executed, hence all the logic must be inside the main() method. If java class is not having a main() method, it causes compilation error.

String[] args : This is used to signify that the user may opt to enter parameters to the java program at command line. We can use both String []args or String args[].