

## **ASSIGNMENT NO-1**

### **1) what is java?**

Ans: Java is general purpose, high level, object oriented programming language.

### **2) Explain all the features in one or Two lines?**

Ans: Secure Interpreted Platform independent portable Robust simple

### **3) In which folder can we find the Javac, java, javah, javami Command?**

Ans. folder name - src

### **4) What all the environment variables to set to run the java program through command prompt?**

Ans. JAVA\_HOME and path

### **5) What are the rules of naming the class?**

Ans. 1. Names should not contain keywords.

2. names cannot start with number.

3. Alphabets from A-Z can be used.

4. no space between the words.

5. It can be start with “\_” and “\$”

### **6)Which is main entry point of java program?**

Ans. main method is entry point in java program.

### **7)components of java program?**

Ans. class variables methods objects packages.

### **8)what is jvm, jre, jdk?**

Ans. JVM= java virtual machine is a runtime engine which runs a program. JRE= java runtime environment in with jvm runs, jre contains jvm, class library and other files excluding compiler & debugging. JDK= java developer kit has developer tools such as compiler and debugging.

**9). Explain the components of compiler environment and run time environments Compiler time environment component?**

Ans: 1. Components of Runtime environment are: source code Operating system

2. Components of compile time environment are: JVM, API, File system

**10). What is JIT?**

Ans. JIT is just in time compiler which is used to speed up the process of compilation.

**11). What are different types of JVM?**

Ans. Native method stack. method area heap memory Stack memory etc

**12). In which area. Class is stored?**

Ans. method area.

**13). In which area objects are stored?**

Ans. Heap memory.

**14). Why do we call Java simple ?**

Ans. it is the simple language it doesn't have pointer, operator overloading and multiple inheritance, structures and unions.

**15) Why is Java platform independent? Explain?**

Ans. Java is platform independent because it follows the WORA principle (write once run anywhere). The program can be written on one platform and can run on different operating systems.

**16) Is JVM platform dependent?**

Ans. Yes, JVM is platform dependent.

**17) Is Java case sensitive?**

Ans. Yes, it is case sensitive.

**18) Is Java a complete object-oriented programming language?**

Ans. Java language is purely object-oriented programming because it contains primitive data types.