**ASSIGNMENT\_1**

1.**What is java?**

Java is a widely used in object-oriented programming language and software platform that runs on many devices like computers, mobile devices and gaming purpose it also creates web apps ,android apps.

2.**Explain all the java feature in one or two lines Main features of java programming languages are**

• Simple

• Object oriented

• Platform independent

• Portable

• Robust

• Secure

• Interpreted

• Multi-threaded.

3**.In which folder can we find the javac, java,javah,javarmi commands?**

The given commands are available JDK\_HOME\bin directory

**4.What are the environment variable to set to run the java programs through command prompt?**

• JAVA\_HOME

• PATH

**5.What are the rules of naming the class?**

• The name of the class should not contain any embedded space or symbol,such as ?,!,#,@,%,{},[],:,;,” and /.

• A class name must be unique.

• A class name must begin with a letter an underscore(\_),or the dollar symbol($).Or ,it must begin with an alphabet that can be followed by a sequence of letters or digits(0-9),’$’,or’\_’.

• A class name should not consist of a keyword.

**6.Which is the main entry point of java program?**

Main method

**7.Components of java program are**?

• Module

• Package

• Class

• Variable

• Statement

• Method

• Constructor

• Inner class.

**8.What is JVM,JRE,JDK?**

• JVM-java virtual machine

• JRE-java runtime environment

• JDK-java development kit.

**9.Explain the components of compile time environments and run time environments**

• Compile time environment components:front end ,back end ,middleware.

• Runtime environment components:operating system,compiler,file system,virtual machine.

**10.What is JIT?**

JIT(just-in -time)compiler is a component of the runtime environment that improves the performance of java applications by bytecodes to native machine code at run time.

**11.Different types of memory in JVM?**

• Heap memory

• Stack

• PC Registers

• Execution Engine

• Native method stack

**12.In which area .class is stored?**

Method area.

**13.In which area object are stored?**

Heap area.

**14.Why do call as java simple?**

Java is very easy to learn ,and its syntax is simple,clean and easy to understand.

**15.Why java is platform independent explain?**

The compiled code can be run on any java supporting platform.it runs on the logic of “write once run anywhere”.

**16.Is JVM platform dependent?**

Yes ,because it takes java byte code and generates byte code for the current operating system.

**17.Is java case sensitive?**

Yes,because it uses a C-style syntax.

**18.Is java complete object oriented programming language?**

JAVA is not pure objected oriented language because it uses primitive data types such as(int,float,char...etc)