Object Oriented Programming (AIML202)

Assignment-I

Q.1Explain different primitive and non-primitive data type in java.

Q.2Explain the terms literals and their types with the help of suitable example.

Q.3What do you mean by an array in java. Explain the following in context of array:

a) Single dimensional array

b) Multidimensional array

Give appropriate example using source code

Q.4 Explain the following through definition, syntax and source code:

a) if

b) if-else

c) if-else-if ladder

d) Nested if

e) Switch case

Q.5 Explain Arithmetic and logical operator with the help of example.

Q.6 Explain the concept of loops in java with proper syntax for the following:

1) for loop and its variants(for each and labelled for loop)

2) While

3) Do-While

Q.7What are the various promises of java? How Sandbox model helps to achieve these security aspects.

Q.8 Explain the JVM architecture in details with the help of block diagram.

Assignment-II

Q1. Explain the term synchronization in multithreaded programming. Write a java code for Producer-Consumer problem using the concept of synchronization.

Q2. Explain different functions associated with the thread class with proper syntax (atleast 10 functions)

Q3. Explain file handling in Java. How BufferedReader and BufferedWriter classes can be used for file handling? Also write the code for the same.

Q4. Explain the hierarchy of classes in AWT. Also, differentiate between AWT and swings in Java.

Q5. Explain the concept of socket programming for building client server applications in Java.

Q6. Explain the term Java Database Connectivity (JDBC), JDBC Manager and different types of drivers. Also write the code for accessing data from the database(MS-Access/ MS-SQL).