

Assignments

Assignment - 1

1. List out features of JAVA and explain two of them.
2. Define array and explain types of arrays with syntax.
3. Explain JVM and Byte code.
4. List out different types of operators in Java. Explain Logical and Bitwise Operators in detail.
5. Write a program that reads an integer between 0 and 1000 and adds all the digits in integer. For example if an integer is 931 then sum is 13.
6. Write a java program to implement Fibonacci series using Loop control statement.

Assignment – 2

1. List access specifiers and describe their purpose in JAVA.
2. Write a program in Java demonstrate the use of “this” keyword.
3. Give the difference between static keyword and final keyword in JAVA.
4. Define constructor overloading. Explain with suitable example.
5. Define method overloading. Explain with suitable example.
6. Write a java program to demonstrate use of “String” class methods : `charAt()`, `contains()`, `format()`, `length()`, `split()`
7. What is wrapper class? Explain use of any one wrapper class.

Assignment - 3

1. List types of inheritance available in JAVA. Explain any two type of inheritance with example.
2. Define abstract class in JAVA with example.
3. Explain how to implement multiple inheritances in java through interface.
4. Create a user-defined package and demonstrate that package in one example. Also write advantages of package.
5. Explain purpose of method overriding with example.
6. Explain `equals ()`, `toString ()` and `finalize ()` methods with its usage in JAVA.

Assignment – 4

1. List types of Errors in exceptional handling and explain any one of them.
2. Describe lifecycle methods of thread in JAVA.
3. Explain two techniques of creating thread in Java.
4. Explain Try and Catch in JAVA with suitable example.
5. Explain throw, throws and finally statements in JAVA exception handling.
6. Write a program in Java to develop Banking Application in which user deposits the amount Rs 5000/- and then start withdrawing of Rs 2000/-, Rs 1500/- and it throws exception "Not Sufficient Fund" when user withdraws Rs. 3500/- thereafter.

Assignment – 5

1. Explain collection classes briefly.
2. Write a program to create abc.txt file and append a new data to it if it already exist.
3. Write a Java program to create a new HashMap, add 5 students' data (enrolment no and name). Retrieve and display the student's name from HashMap using enrolment no.
4. Describe Collections framework.
5. Write programs using ArrayList and LinkedList
6. Explain Map classes with example.