Assignment3:

1.Define Array. How to declare initialize and access multi dimensional Arrays in Java. Write a java program to implement binarysearch.

2. What is inheritance in java? What are different types of inheritance in java?

3. Explain about method overriding in java. Explain the concept of Dynamic method dispatch with a java program

4. Demonstrate the usage of 'Super' keyword with a Java program.

5. Is it possible to implement multiple inheritances in Java? Justify your answer.

6. Compare the features of Array with Vector.

Arrays:

Write a Java Program to multiply two matrices.

Develop a program to compute the inverse of a given matrix.

Develop a Java program to read students' six subject marks and computes the aggregate (%).

Develop a program to apply merge sort on array elements

Develop a program to declare and access the three-dimensional arrays.

Inheritance:

Explain the concept of Inhibiting Inheritance of Class using final with a suitable example

Explain the member access mechanism in the inheritance with an example.

Explain the procedure to call super class members with an example.

Demonstrate multi-level inheritance with an example program.

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Interfaces:

What is an interface? What are the similarities between interfaces and classes?

How can you extend one interface by the other interface? Discuss

Discuss the advantages of the Interface.