

## Test -1

Each Question is for 10 marks.

1. Write a jsp code that takes two binary numbers and one decimal(base 10) number as inputs.

Then the jsp code will convert both the binary numbers onto base 10 format, finds the largest of the three numbers, adds all the three numbers . It prints the original binary numbers, original decimal number, along with the sum and the largest number.

For Ex:

If you gave input as : 1000, 1001, 22

Then 1000 (binary) is converted to base10 i.e, 8.

1001 is converted to base 10 i.e, 9.

Sum of 8,9,22 is calculated = 39.

It prints

Original Numbers : 1000,1001,22

Largest : 22

Sum : 39.

2. Write a Java program where two threads create an Vector each , of String. Each Vector has 6 Strings. One of the two threads will merge both the Vectors and creates a new Vector of 12 Strings. The same thread will also sort this resultant list and prints it onto the screen.

3. Write a Java program with JDBC that does the following:

- Creates two databases LandAnimals and SeaAnimals
- Under LandAnimals it creates two tables namely predator and prey
- Under SeaAnimals it creates two tables namely predator and prey
- Each of the four tables will contain the following fields:
  - id (number ranging from 1-50)
  - name
  - size (Large,Medium,Small)
  - Habitat
- Compare Predator of LandAnimals with Predator of SeaAnimals using id as key.  
If there is a common id , display that specific LandAnimals Predator and Sea Animals Predator details.
- Compare Prey of LandAnimals with Prey of SeaAnimals using id as key.  
If there is a common id , display that specific LandAnimals Prey and SeaAnimals Prey details.