CS-103

Autumn 2013

Tut - 3

Q1. Ten numbers are entered from the keyboard into an array. The number to be searched is entered through the keyboard by the user. Write a program to find if the number to be searched is present in the array and if it is present, display the number of times it appears in the array.

Q2. Ten numbers are entered from the keyboard into an array. Write a program to find out how many of them are positive, how many are negative, how many are even and how many odd.

Q3. Write a program to copy the contents of one array into another in the reverse order. The program should take double type values from the keyboard.

Q4. WAP for the following:

1. initialize an integer array of 10 elements in main( ) method
2. pass the entire array to a method update( )
3. in update( ) multiply each element of array by 2
4. return the control to main( ) method and print the new array elements in main( )
   * using for loop with counter
   * using enhanced for statement to iterate through the elements of an array without using a counter, thus avoiding the possibility of “stepping outside” the array.

Q5. WAP for 5 x 5 matrix (a) entered through the keyboard (b) initialized in the program and stored in a 2-dimensional array mat[5][5]. Write a program to obtain the Determinant values of this matrix (i) without writing method for the above (ii) writing a method by passing array to the method

Q6. The X and Y coordinates of 10 different points are entered through the keyboard. Write a program to find the length of path from first to last point via rest of them in the given order. You should design a method which can be reused to find distance between two give points.

Q7. WAP to print an array in ascending and descending order. Array is initialized in the main() method of the class. (Make use of array.length to find the number of elements in the array if required).