# Day 26

## Questions

1. Write a Java program to sum values of an array.

2. Write a Java program to sum values of an array list.

3. Write a Java program to calculate the average value of array elements

4. Write a Java program to find the index of an array element.

5. Write a Java program to find the maximum and minimum value of an array and array list

6. Write a Java program to convert an array to ArrayList.

7. Write a Java program to convert an ArrayList to an array.

8. Write a Java program to find the number of even and odd integers in a given array of integers.

9. Write a program to print the most occurring elements from an Array list.

10. Write a program to print the most occurring elements from an Array.

# Question 2.

1. Create an abstract class Mobile with the following:
   a. Instance variable: brand, price and total
   b. Parameterized constructor with brand as parameter:
      i. Assign the value of parameter in instance variable
   c. Getter and getter methods for all the variables
   d. public double getDiscountAmount():
      i. Apply discount of 10% from the price and return the discount amount
   e. public void calculateTotal():
      i. total = price – discount (call getDiscountAmount() for discount)
   f. Pubic void display()
      i. Print all the values

2. Create a class Samsung extending Mobile class with the following:
   a. public void getDiscountAmount ():
      i. Apply discount of 15% from the price and return the discount amount

3. Create a class Apple extending Mobile class
   a. No need to do anything

4. Create a class MobileStore with the following:

    a. Main method:

        i. Create an object of Samsung class

        ii. Call setter method of price with proper parameter value

        iii. Call calculateTotal() method

        iv. Call display() method

        v. Create an object of Apple class

        vi. Call setter method of price with proper parameter value

        vii. Call calculateTotal() method

        viii. Call display() method