Assignment No 8

1. Write a program add the two integer array of size 5 and store the result in the third array.

Program –

```
public class AddTwoInt
{
	public static void main(String[] args)
	{
	int[] a = {1,2,3,4,5};
	int[] b = {5,4,3,2,1};
	int[] c = new int [5];
	for (int i=0;i<a.length;i++)
	{
		c[i]=a[i]+b[i];
	}
	for(int i=0;i<a.length;i++)
	{
	System.out.println(c[i]);
	}
}
}
```

2. Write a program to find the sum of even number and odd number in the array of size 10.

Program –

```
import java.util.Scanner;
public class SumOfEven
{
	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		int i, size, Even=0, Odd=0;
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter Array Elements ");
		size = sc.nextInt();
		int[]a = new int[size];
		System.out.println("Enter " +size+" Element of Array ");
		for(i=0;i<size;i++)
		{
		a[i] = sc.nextInt();
		}
		for(i=0; i<size; i++)
		{
			if(a[i]%2==0)
			{
				Even = Even+a[i];
			}
			else
			{
				Odd = Odd+a[i];
```

```
                    }
                }
                System.out.println("Sum of Even Number in Array " +Even);
                System.out.println("Sum of Odd Number in Array " +Odd);
            }
        }
```

3. Write a program to print lowercase letter from your name.

Program –

```
public class LowerCase
{
    public static void main(String[] args)
    {
        // TODO Auto-generated method stub
        String name = "AdarshSharma";
        char[] arr = new char[name.length()];
        String nm = " ";
        for (int i = 0; i < name.length(); i++)
        {
            arr[i] = name.charAt(i);
        }
        for (int j = 0; j < name.length(); j++)
        {
            if (arr[j] >= 'a' && arr[j] <= 'z')
            {
                nm += arr[j];
            } else {
                System.out.println(nm);
            }
        }
    }
}
```

4. Write a program to count the number of vowels and consonants in the given message.

Program –

```
import java.util.Scanner;
public class VowelConsonents
{
    public static void main()
    {
    int Vowel=0, Consonent=0;
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter a Message: ");
    String str;
    str = sc.nextLine();
    str = str.toLowerCase();
        for(int i=0; i<str.length();i++)
            {
```

```
                    if(str.charAt(i) == 'a' || str.charAt(i) == 'e' ||
                str.charAt(i) == 'i' || str.charAt(i) == 'o' ||
                 str.charAt(i) =='u')
                    {
                        Vowel++;
                    }
                    else if(str.charAt(i) >= 'a' && str.charAt(i)<='z')
                    {
                        Consonent++;
                    }
                    }
            System.out.println("Number of Vowels: " + Vowel);
            System.out.println("Number of Consonants: " + Consonent);
            }
        }
```

5. Repeated Salary Count

John is working as a clerk in an organization where N number of people are working. His boss has asked him to get the count of employees who get same salary. Help him to get the count of repeated salary. Include a function named countRepeaters that accepts 2 arguments and returns an int. The first argument is the input array and the second argument is an int that corresponds to the size of the array. The function returns an int that corresponds to the number of repeaters. If the size of the array is negative or if any of the array elements are negative, print “Invalid Input” and terminate the program. Input and Output Format: Input consists of n+1 integers. The first integer corresponds to n, the number of elements i n the array. The next 'n' integers correspond to the elements in the array.

Program –

```
package com.edubridge.assignment8;
import java.util.Scanner;
public class SalaryCount
{
    public static void main(String[] args)
    {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter Number of Employee : ");
        int size = sc.nextInt();
        int arr[] = new int[size];
        if(size>0)
        {
            System.out.println("Enter " + size + " Employee Salary :
            ");
            for (int i = 0; i < size; i++)
            {
            arr[i] = sc.nextInt();
            }
            countRepeat(arr);
        }
        else
```

```
            {
                  System.out.println("Please input Valid Size of an Array
                  : positive value only.");
            }
      }

      public static void countRepeat(int[]arr)
      {
            int j,count=0;
            for(int i = 0; i < arr.length; i++) {
            for(j = i+1; j< arr.length; j++) {
            if(arr[i] == arr[j]) count++;
            }
            }
            System.out.println("The number of Employee Having Same
            Salary");
            System.out.println(count);
      }
}
```