

## WEEK-3(extra programs)

1)

```
import java.util.Scanner;
public class sum{
    public static void main(String args[]){
        int i,sumE=0,sumO=0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter number of elements in array");
        int n = sc.nextInt();
        int[] a= new int[n];
        System.out.println("Enter the elements of array");
        for(i=0;i<n;i++)
        {
            System.out.println("a["+ i + "] :");
            a[i]=sc.nextInt();
            if(i%2==0)
            {
                sumE=sumE+a[i];
            }
            else
                sumO=sumO + a[i];
        }
        System.out.println("Sum of even indices= "+ sumE);
        System.out.println("sum of odd indices= "+ sumO);
    }
}
```

```
Enter number of elements in array
5
Enter the elements of array
a[0] :
10
a[1] :
20
a[2] :
30
a[3] :
40
a[4] :
50
Sum of even indices= 90
sum of odd indices= 60
```

2)

```
import java.util.Scanner;
public class sum{
    public static void main(String args[]){
        int i,p=0,n=0, z=0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter number of elements in array");
        int b = sc.nextInt();
        int[] a= new int[b];
        System.out.println("Enter the elements of array(integers");
        for(i=0;i<b;i++)
        {
            System.out.println("a[" + i + "] :");
            a[i]=sc.nextInt();
            if(a[i]>0)
            {
                p++;
            }
            else if(a[i]==0)
                n++;
            else
                z++;
        }
        System.out.println("Number of positive numbers= " + p);
        System.out.println("Number of negative numbers= " + n);
        System.out.println("Number of Zeros= " + z);
    }
}
```

```
Enter number of elements in array
7
Enter the elements of array(integers
a[0] :
12
a[1] :
-9
a[2] :
0
a[3] :
6
a[4] :
-9
a[5] :
6
a[6] :
0
Number of positive numbers= 3
Number of negative numbers= 2
Number of Zeros= 2
```

