

PROGRAM-1

```
import java.util.Scanner;
```

```
public class Main
```

```
{
```

```
    public static void main (String [] args)
```

```
    {
```

```
        int n, sumE = 0, sumO = 0;
```

```
        Scanner s = new Scanner (System.in);
```

```
        System.out.print ("Enter the number of elements in  
                           array: ");
```

```
        n = s.nextInt();
```

```
        int [] a = new int [n];
```

```
        System.out.println ("Enter the elements of the array: ");
```

```
        for (int i = 0; i < n; i++)
```

```
        {
```

```
            a[i] = s.nextInt();
```

```
        }
```

```
        for (int i = 0; i < n; i++)
```

```
        {
```

```
            if (a[i] % 2 == 0)
```

```
            {
```

```
                sumE = sumE + a[i];
```

```
            }
```

```
            else
```

```
            {
```

```
                sumO = sumO + a[i];
```

```
            }
```

```

    }
    System.out.println("Sum of Even Numbers: " + sumE);
    System.out.println("Sum of Odd Numbers: " + sumO);
    }
}

```

PROGRAM--2

```
import java.util.Scanner;
```

```
public class Main
{
```

```
    public static void main (String args[])
    {
```

```
        // initialize and declaring the objects :-
```

```
        int n, positive = 0, negative = 0, zero = 0, i;
```

```
        int arr[] = new int[50];
```

```
        Scanner scan = new Scanner (System.in);
```

```
        // enter number you have to enter,
```

```
        System.out.print("How many number you want  
to enter : ");
```

```
        n = scan.nextInt();
```

```
        // enter the numbers.
```

```
        System.out.println("Enter " + n + " numbers :");
```

```
        // this is to calculate the type of the number.
```

```
        for (i=0; i<n; i++)
```

```

{
    arr[i] = scan.nextln();
}
for (i=0; i<n; i++)
{
    if (arr[i] < 0)
    {
        negative++;
    }
    else if (arr[i] == 0)
    {
        zero++;
    }
    else
    {
        positive++;
    }
}
// print all +ve, -ve and zero numbers.
System.out.print("Positive Numbers are : " + positive);
System.out.print("In Negative Numbers are : " + negative);
System.out.print("In Zeros are : " + zero);
}
}

```

PROGRAM---3

```
import java.util.Scanner;
```

```
public class Main {
```

```
    public static void main (String [] args) {
```

```
        Scanner sc = new Scanner (System.in);
```

```
        System.out.println ("Enter the number of items:");
```

```
        int n = sc.nextInt();
```

```
        double endTot, tot = 0;
```

```
        double [] rpe = new double [n];
```

```
        int [] quant = new int [n];
```

```
        for (int i = 0; i < n; i++) {
```

```
            System.out.println ("Enter quantity of purchase and  
                                rate per item for item " + (i+1));
```

```
            int q = sc.nextInt();
```

```
            double r = sc.nextDouble();
```

```
            quant [i] = q;
```

```
            rpe [i] = r;
```

```
        }
```

```
        for (int i = 0; i < n; i++) {
```

```
            endTot = quant [i] * rpe [i];
```

```
            tot += endTot;
```

```
        }
```

```
        if (tot >= 100000) {
```

```
            System.out.println ("Discount = 3%.
```

```
            Total bill = " + tot + " Discounted bill
```

```
                = " + (tot - tot * 0.03));
```

```
        }
```


else if (tot >= 5000) {

System.out.println("Discount = 2%. Total bill = u + tot + n

Discounted bill = u + (tot - tot * 0.02));

}

else {

System.out.println("No discount. Total bill = u + tot);

}

}

}

PROGRAM--4

import java.util.Scanner;

public class Main {

public static void main (String [] args) {

int n, j = 0, k = 0, sum = 0, avg, max, min;

Scanner s = new Scanner (System.in);

System.out.print ("Enter the number of elements in array: ");

n = s.nextInt();

int[] a = new int [n];

int[] b = new int [n];

int[] c = new int [n];

System.out.println ("Enter the elements of the array: ");

for (int i = 0; i < n; i++) {

a[i] = s.nextInt();

}

for (int i = 0; i < n; i++) {

if (a[i] * 1.2 >= 0) {

c[i] = a[i];

sum += a[i];

```

j++;
} else {
    b[k] = a[j];
    k++;
}
}
}

```

```

// avg = sum / j;

```

```

max = c[0];

```

```

min = c[0];

```

```

for (int i = 0; i < j; i++) {

```

```

    if (c[i] > max) {

```

```

        max = c[i];

```

```

    }

```

```

    if (c[i] < min) {

```

```

        min = c[i];

```

```

    }

```

```

}

```

System.out.println("For the given array sum is " + sum + "
 average is " + (sum / j) + " maximum is " + max + " minimum
 is " + min);

```

}

```

```

}

```