```java
import java.util.*;

class Even_odd
{
    public static void main(String args[])

{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter the number of elements:");
    int n = sc.nextInt();
    int a[]= new int[n];
    int even=0;
    int odd=0;
    for(int i=0;i<n;i++)
     {
        System.out.println("Enter a["+i+"]");
        a[i]=sc.nextInt();
      }
    for(int i=0;i<a.length;i++)
    {
        if(i%2==0)
          even+=a[i];
        else
          odd+=a[i];
    }

    System.out.println("Sum of even indices="+even);
    System.out.println("Sum of odd indices="+odd);

    }}
```

```java
import java.util.*;

class Array_num
{
    public static void main(String args[])

{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter the number of elements:");
    int n = sc.nextInt();
    int a[]= new int[n];
    int pos=0;
    int neg=0;
    int zero=0;
    for(int i=0;i<n;i++)
     {
        System.out.println("Enter a["+i+"]");
        a[i]=sc.nextInt();
     }
    for(int i=0;i<a.length;i++)
    {
      if(a[i]>0)
      pos++;
      else if(a[i]<0)
      neg++;
      else
      zero++;
    }
    System.out.println("Number of positive numbers is:"+pos);
    System.out.println("Number of negative numbers is:"+neg);
    System.out.println("Number of zeroes is:"+zero);
}}
```

```java
import java.util.Scanner;

class Array_sum1
{
public static void main(String ss[])
{
Scanner sc= new Scanner(System.in);
int i,n, j = 0, k = 0,sum=0,avg=0,max=0,min=0;
System.out.print("Enter no. of elements :");
n = sc.nextInt();
int a[] = new int[n];
int b[] = new int[n];
int c[] = new int[n];
max=c[0];

System.out.println("Enter all the elements:");
for( i = 0; i < n; i++)
 {
    a[i] = sc.nextInt();
 }
 for( i = 0; i < n; i++)
 {
   if(a[i] % 2 != 0)
  {
    b[j] = a[i];
     j++;
  }
    else
    {
      c[k] = a[i];
      k++;
       }
      }
 System.out.println("Odd:");
if(j > 1)
```

```java
 System.out.println("Odd:");
if(j > 1)
   {
    for( i = 0;i < (j-1); i++)
     {
        System.out.println(b[i]);
     }
        System.out.println(b[j-1]);
   }
else
   {
     System.out.println("No number");
   }
 System.out.println("Even:");
 if(k > 1)
      {
        for( i = 0; i < (k-1); i++)
         {
            System.out.println(c[i]);
         }}
      System.out.println(c[k-1]);
      for(i=0;i<c.length;i++)
      {
      sum+=c[i];
      avg = sum/k;
      }
      for(i=0;i<k;i++){
      min=c[0];
      if (c[i]>max){
      max=c[i];
      }
       if(c[i]<min){
      min = c[i];
      }
      }
```

```
System.out.println("Even:");
if(k > 1)
    {
        for( i = 0; i < (k-1); i++)
        {
            System.out.println(c[i]);
        }}
    System.out.println(c[k-1]);
    for(i=0;i<c.length;i++)
    {
    sum+=c[i];
    avg = sum/k;
    }
    for(i=0;i<k;i++){
    min=c[0];
    if (c[i]>max){
    max=c[i];
    }
     if(c[i]<min){
    min = c[i];
    }
    }
    System.out.println("sum ="+sum);
    System.out.println("Average="+avg);
    System.out.println("Maximum is="+max);
    System.out.println("Minimum is="+min);


}
}
```

```java
import java.util.Scanner;
class Bill_Array {
    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 indTot, t = 0;
        double rpi[] = new double[n];
        int qua[] = 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();
            qua[i] = q;
            rpi[i] = r;
        }
        for(int i = 0; i<n; i++){
            indTot = qua[i] * rpi[i] ;
            t+= indTot;
        }
        if (t >= 10000) {
            System.out.println("Discount = 5%. Total bill = " + t + " Discounted bill = " + (t - t * 0.05));
        }

        else if (t >= 7500) {
            System.out.println("Discount = 3%. Total bill = " + t + " Discounted bill = " + (t - t * 0.03));
        }
         else if (t >= 5000) {
            System.out.println("Discount = 2%. Total bill = " + t + " Discounted bill = " + (t - t * 0.02));
        }
        else{
            System.out.println(" No discount. Total bill = " + t );
        }
    }
}
```

```
Command Prompt

Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Nikita>c:

C:\Users\Nikita>cd desktop

C:\Users\Nikita\Desktop>cd OOJ_LAB

C:\Users\Nikita\Desktop\OOJ_LAB>java Even_odd
Enter the number of elements:
4
Enter a[0]
0
Enter a[1]
2
Enter a[2]
77
Enter a[3]
46
Sum of even indices=77
Sum of odd indices=48

C:\Users\Nikita\Desktop\OOJ_LAB>java Array_num
Enter the number of elements:
6
Enter a[0]
11
Enter a[1]
22
Enter a[2]
33
Enter a[3]
44
Enter a[4]
55
Enter a[5]
66
Number of positive numbers is:6
Number of negative numbers is:0
Number of zeroes is:0
```

```
Command Prompt                                                    —  □  ×

C:\Users\Nikita\Desktop\OOJ_LAB>java Array_num
Enter the number of elements:
4
Enter a[0]
0
Enter a[1]
-22
Enter a[2]
-378
Enter a[3]
444
Number of positive numbers is:1
Number of negative numbers is:2
Number of zeroes is:1

C:\Users\Nikita\Desktop\OOJ_LAB>java Bill_Array
Enter the number of items:
5
enter quantity of purchase and rate per item for item1
2
1000
enter quantity of purchase and rate per item for item2
3
2500
enter quantity of purchase and rate per item for item3
1
4000
enter quantity of purchase and rate per item for item4
3
700
enter quantity of purchase and rate per item for item5
2
1500
Discount = 5%. Total bill = 18600.0 Discounted bill = 17670.0

C:\Users\Nikita\Desktop\OOJ_LAB>java Array_sum1
Enter no. of elements :7
Enter all the elements:
11
71
72
```

```
1
4000
enter quantity of purchase and rate per item for item4
3
700
enter quantity of purchase and rate per item for item5
2
1500
Discount = 5%. Total bill = 18600.0 Discounted bill = 17670.0

C:\Users\Nikita\Desktop\OOJ_LAB>java Array_sum1
Enter no. of elements :7
Enter all the elements:
11
71
72
88
90
33
57
Odd:
11
71
33
57
Even:
72
88
90
sum =250
Average=83
Maximum is=90
Minimum is=72

C:\Users\Nikita\Desktop\OOJ_LAB>
C:\Users\Nikita\Desktop\OOJ_LAB>
```