```java
import java.util.Scanner;
class evenodd
{
    public static void main(String[] args)
    {
        int a[],n,sum1=0,sum2=0;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of elements:");
        n=sc.nextInt();
        a=new int[n];
        for(int i=0;i<n;i++)
        {
            a[i]=i;
        }
        System.out.print("sum of even indices:");
        for(int i=0;i<n;i=i+2)
        {
            sum1=sum1+a[i];
        }
        System.out.println(sum1);
        System.out.print("sum of odd indices:nnn");
        for(int i=1;i<n;i=i+2)
        {
            sum2=sum2+a[i];
        }
        System.out.print(sum2);
    }
}
```

```
sum of even indices:30
sum of odd indices:25
C:\Users\HARSHITHA RM\Desktop\ooj>java evenodd
Enter the number of elements:
6
sum of even indices:6
sum of odd indices:9
```

```java
1. import java.Scanner;
class Save evenodd
{
    public static void main (String ss[])
    { int a[],n; sum1=0, sum2=0;
    System.out.println(" Enter the number of
                    elements");
    Scanner sc = new Scanner (System.in);
        n = sc.nextInt();

        a = new int [n];
    for (int i=0; i<n; i++)
    {
        a[i] = sc.nextInt();
    }
S.o.pln (" sum of even indices: ");
    for (int i=0; i<n; i=i+2)
    {

        sum1= sum1+ a[i];
    }
    S.o. pln (sum1);

    S.o. pln ("Sum of odd indices :");
        for (int i=1 ; i<n ; i=i+2)
        {

            sum2 = sum2 + a[i];
        }
    S.o.pln (sum2);
    }
}
```

```java
import java.util.Scanner;

class posneg
{
    public static void main(String[] args)
    {
        int a[],n=0,p=0,z=0,r;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of elements:");
        r=sc.nextInt();
        a=new int[r];
        System.out.println("Enter the elements:");
        for(int i=0;i<r;i++)
        {
            a[i]=sc.nextInt();
            if(a[i]>0)
                p++;
            else if(a[i]==0)
                z++;
            else
                n++;
        }
        System.out.println(" number of positive elements are:"+p+"\n number of negative elements are:"+n+"\n number of zeroes are:"+z);

    }
}
```

```
C:\Users\HARSHITHA RM\Desktop\ooj>javac posneg.java

C:\Users\HARSHITHA RM\Desktop\ooj>java posneg
Enter the number of elements:
10
Enter the elements:
1 2 3 -4 -5 7 8 0 0 -1
 number of positive elements are:5
 number of negative elements are:3
 number of zeroes are:2
```

```java
2) import java.util.scanner;
   class posneg
   {
       public static void main(String ss[])
       {
           Scanner sc = new Scanner(System.in);
           int a[], n, p, z, r;
           S.o.pln ("Enter number of elements");
           r = sc.nextInt();
           S.o.pln ("Enter elements of array");
           a = new int[n];
           for (int i=0; i<r; i++)
           {
               a[i] = sc.nextInt();

               if (a[i] > 0)
                   p++;
               else if (a[i] == 0)
                   z++;
               else
                   n++;
           }

           S.o.pln ("No of positive elements are :"+p+
                    "No of negative elements :"+n+
                    "No of elements zeroes are :"+z);
       }
   }
```

```java
import java.util.Scanner;
class supermarket
{
    public static void main(String[] args)
    {
        int q[],n,r[],totalamt=0;
        double finalamt;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of items:");
        n=sc.nextInt();
        r=new int[n+1];
        q=new int[n+1];
        System.out.println("Enter rate and quantity of each item:");
        for(int i=1;i<=n;i++)
        {
          System.out.println("Enter rate of item"+i+":");
          r[i]=sc.nextInt();
          System.out.println("Enter quantity of item"+i+":");
          q[i]=sc.nextInt();
          totalamt=totalamt+(r[i]*q[i]);
        }

        if(totalamt>=10000)
            finalamt=totalamt*(1-0.05);
        else if(totalamt>=7500 && totalamt<10000)
            finalamt=totalamt*(1-0.03);
        else if(totalamt>=5000)
            finalamt=totalamt*(1-0.02);
        else
            finalamt=totalamt;


        System.out.println(finalamt);
    }
}
```

```
C:\Users\HARSHITHA RM\Desktop\ooj>javac supermarket.java

C:\Users\HARSHITHA RM\Desktop\ooj>java supermarket
Enter the number of items:
3
Enter rate and quantity of each item:
Enter rate of item1:
10
Enter quantity of item1:
100
Enter rate of item2:
20
Enter quantity of item2:
200
Enter rate of item3:
30
Enter quantity of item3:
300
13300.0

C:\Users\HARSHITHA RM\Desktop\ooj>
```

3)
```java
import java.util.scanner;
class supermarket
{
    public static void main (string ss[])
    {
        Scanner sc = new Scanner (system.in)
        int r[], q[], n, totalamt, finalamt;
        S.o.pln ("Enter the number of items ");
        n = sc.nextInt();    r = new int[n];
                             q = new int[n];
        S.o.pln ("Enter rate and quantity of
        each item");
        for (int i=0; i<n; i++)
        {
            S.o.p ("Rate of item "+ i +": ");
            r[i]= sc.nextInt();
                     quantity
            S.o.p ("\n Rate of item "+ i+": ");
            q[i].sc. nextInt();

            Total amt = totalamt + r*q;
        }

        if (Total amt >= 10000)
        {
            finalamt= totalamt - totalamt*0.5;
            S.o.pln("final amt = "+ finalamt);
        }

        else if (Total amt >= 7500 && Total amt <1000
        {
            finalamt = Totalamt * (1 - 0.03);
            S.o.pln (total final amt);
        }

        else if (Totalamt >= 5000)
        { finalamt = total amt * (1- 0.02);
          S.o.pln (final amt);
```

```
        else
            s.o.ph ("No discount");
        }
    }
}


4)  import java.util.scanner;
    class array
    {
        public static void main (String ss[])
        {
        Scanner sc = new Scanner (System.in);
        int n, a[], b[], c[], j=0, k=0, sum;
             double  avg
        system.out.println("Enter the number
               of elements");
        n = sc.nextInt();
        a = new int(n);
        b = new int(n);
        c = new int(n);
        s.o.pln ("Enter the values"),
        for (int i=0; i< n; i++)
        {
             j=0
        a[i]= sc.nextInt();
        if ( a[i]%.2 ==0)
        {
           c[j] = a[i];
           j++;
        }

        else
        {
           b[k] = a[i];
           k++;
        }
    }
```

```
max = c[0];
min. = c[0];

for ( int i=0;  i<j; i++)
{
        sum = sum + c[i];
        if ( c[i] > max)
             max = c[i];
        if ( c[i] < min)
             min = c[i];
}

avg = (double)(sum/j);
system.out.println("sum = "+sum+
                    "\n average ="+avg+
                    "\n max ="+max+
                    "\n min : "+min);
}
}
```

```java
1    import java.util.Scanner;
2    class array
3    {
4        public static void main(String[] args)
5        {
6
7            Scanner sc=new Scanner(System.in);
8            int n,a[],b[],c[],j=0,k=0,sum=0,max,min;
9            double avg;
10           System.out.println("Enter the number of elements:");
11           n=sc.nextInt();
12           a=new int[n];
13           b=new int[n];
14           c=new int[n];
15
16
17           System.out.println("Enter the elements:");
18           for(int i=0;i<n;i++)
19           {
20               a[i]=sc.nextInt();
21               if(a[i]%2==0)
22               {
23                   c[j]=a[i];
24                   j++;
25               }
26               else
27               {
28                   b[k]=a[i];
29                   k++;
30               }
31           }
32           max=c[0];
33           min=c[0];
34           System.out.println("array of even numbers:");
35           for(int i=0;i<j;i++)
36           {
37               sum=sum+c[i];
38               if( c[i]>max)
39                   max=c[i];
40               if(c[i]<min)
41                   min=c[i];
42               System.out.print(i+" ");
43           }
44           avg=(double)sum/j;
45           System.out.println("\nsum of even numbers ="+sum+"\naverage="+avg+"\nmax="+max+"\nmin="+min);
46       }
47   }
```

```
C:\Users\HARSHITHA RM\Desktop\ooj>javac array.java

C:\Users\HARSHITHA RM\Desktop\ooj>java array
Enter the number of elements:
10
Enter the elements:
1 2 3 4 5 6 7 8 9 10
array of even numbers:
0 1 2 3 4
sum of even numbers =30
average=6.0
max=10
min=2
```