

```

1  import java.util.Scanner;
2  public class program{
3      public static void main(String[] args)
4      {
5          Scanner sc=new Scanner(System.in);
6          int n;
7          System.out.println("enter the number of elements:");
8          n=sc.nextInt();
9          int[] a=new int[n];
10         int i;
11         System.out.println("enter the elements of the array:");
12         int p=0;
13         int neg=0;
14         int zer=0;
15         for(i=0;i<n;i++)
16         {
17             a[i]=sc.nextInt();
18         }
19         for(i=0;i<n;i++)
20         {
21             if(a[i]>0)
22                 p++;
23             if(a[i]<0)
24                 neg++;
25             if(a[i]==0)
26                 zer++;
27         }
28         System.out.println("the total number of positive elements:"+p);
29         System.out.println("the total number of negative elements:"+neg);
30         System.out.println("the total number of zeroes:"+zer);
31     }
32 }

```

compiled and executed in 14.483 sec(s)

```

enter the number of elements:
5
enter the elements of the array:
2
0
0
-9
-8
the total number of positive elements:1
the total number of negative elements:2
the total number of zeroes:2
|

```

```

1 import java.util.Scanner;
2 public class PROG
3 {
4     public static void main(String[] args)
5     {
6         Scanner sc=new Scanner(System.in);
7         int n;
8         System.out.println("enter the number of elements");
9         n=sc.nextInt();
10        int[] a=new int[n];
11        int i;
12        System.out.println("enter the elements of an array:");
13        int evensum=0;
14        int oddsum=0;
15        for(i=0;i<n;i++)
16
17            a[i]=sc.nextInt();
18
19        for(i=0;i<n;i++)
20        {
21            if(i%2==0)
22                evensum+=a[i];
23            else
24                oddsum+=a[i];
25        }
26        System.out.println("sum of elements in even indices:"+evensum);
27        System.out.println("sum of elements in odd indices:"+oddsum);
28    }
29 }
30

```

```
compiled and executed in 30.463 sec(s)

enter the number of elements
5
enter the elements of an array:
1
2
3
4
5
sum of elements in even indices:9
sum of elements in odd indices:6
```

The screenshot shows an IDE with a toolbar at the top containing icons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Java. The code in the editor is as follows:

```
1 import java.util.*;
2 public class Main{
3     public static void main(String[] args)
4
5 {
6     int n;
7     double totalbill=0.0,finalbill=0.0;
8     Scanner in=new Scanner(System.in);
9     System.out.println("enter total number of items:");
10    n=in.nextInt();
11    double rate[]=new double[n];
12    int quat[]=new int[n];
13    System.out.println("enter both rate and quantity:");
14    for(int i=0;i<n;i++){
15        rate[i]=in.nextDouble();
16        quat[i]=in.nextInt();
17    }
18    for(int i=0;i<n;i++)
19    {
20        totalbill+=(rate[i]*quat[i]);
21    }
22    System.out.println("total bill after counting is:"+totalbill);
```

```

23         if(totalbill>=10000)
24         {
25             finalbill=(totalbill-(totalbill*0.05));
26             System.out.println("final bill after discount:"+finalbill);
27         }
28         else if(totalbill>=7500)
29         {
30             finalbill=(totalbill-(totalbill*0.03));
31             System.out.println("final bill after discount:"+finalbill);
32         }
33         else if(totalbill>=5000)
34         {
35             finalbill=(totalbill-(totalbill*0.02));
36             System.out.println("final bill after discount:"+finalbill);
37         }
38         else
39         {
40             System.out.println("final bill after discount:"+totalbill);
41         }
42     }
43 }

```

```

enter total number of items:
3
enter both rate and quantity:
3
10000
4
5000
5
2500
total bill after counting is:62500.0
final bill after discount:59375.0

...Program finished with exit code 0
Press ENTER to exit console.

```

Run Debug Stop Share Save Beautify Language Java

```

Main.java
1  import java.util.*;
2  class Player{
3      int id;
4      String name;
5      int n;
6      double scores[];
7      double sum=0.0;
8
9
10     Player()
11     {
12         Scanner in=new Scanner(System.in);
13         System.out.println("enter the name and id of the player:");
14         name=in.nextLine();
15         id=in.nextInt();
16         System.out.println("enter the number of matches played by the player:");
17         n=in.nextInt();
18         System.out.println("scores scored by player in every match:");
19         scores=new double[n];
20         for(int i=0;i<n;i++)
21         {
22             scores[i]=in.nextDouble();
23         }

```

```

24
25     double avg_score()
26     {
27         for(int i=0;i<n;i++)
28         {
29             sum+=scores[i];
30         }
31         return sum/n;
32     }
33
34     void display()
35     {
36         System.out.println("details of the best player among two:");
37         System.out.println("name:"+name);
38         System.out.println("id:"+id);
39         System.out.println("number of matches played:"+n);
40         System.out.println("scores scored by player in every match:");
41         for(int i=0;i<n;i++)
42         {
43             System.out.println(+scores[i]);
44         }
45     }}
46     class Main{
47     public static void main(String[] args)
48     {
49         Player p1=new Player();
50         Player p2=new Player();
51

```

```

enter the name and id of the player:
tanishq
104
enter the number of matches played by the player:
3
scores scored by player in every match:
2
4
1
enter the name and id of the player:
brent
107
enter the number of matches played by the player:
2
scores scored by player in every match:
4
3
Average score of player1:2.3333333333333335
Average score of player2:3.5
Average score of player2 is greater:3.5
details of the best player among two:
name:brent
id:107
number of matches played:2
scores scored by player in every match:
4.0
3.0

...Program finished with exit code 0
Press ENTER to exit console.

```

```

1 import java.util.*;
2 public class book
3 {
4     String bookid,booktitle,author,publisher;
5     static int no_of_page,year_of_pub,price;
6     void accept()
7     {
8         Scanner sc=new Scanner(System.in);
9         System.out.println("enter the bookid:");
10        bookid=sc.nextLine();
11        System.out.println("enter the booktitle:");
12        booktitle=sc.nextLine();
13        System.out.println("enter the author of the book:");
14        author=sc.nextLine();
15        System.out.println("enter the publisher of the book:");
16        publisher=sc.nextLine();
17        System.out.println("enter the no of pages of the book:");
18        no_of_page=sc.nextInt();
19        System.out.println("enter the year of publishing the book:");
20        year_of_pub=sc.nextInt();
21        System.out.println("enter the price of the book:");
22        price=sc.nextInt();
23    }
24    void display()
25    {
26        System.out.println("details of the book:");
27        System.out.println("book id :"+bookid);
28        System.out.println("book title :"+booktitle);
29        System.out.println("author:"+author);
30        System.out.println("publisher:"+publisher);
31        System.out.println("no_of+pages:"+no_of_page);
32        System.out.println("year of publishing:"+year_of_pub);
33        System.out.println("price of the book:"+price);
34    }
35    static void expensive(int p1,int p2,int p3,String t1,String t2,String t3)
36    {
37        String exp="";
38        if((p1>p2)&&(p1>p3))
39            exp=t1;
40        else if(p2>p3)
41            exp=t2;
42        else
43            exp=t3;
44        System.out.println("most expensive book:"+exp);
45    }

```

```

46    static void count(int b1,int b2,int b3)
47    {
48        int c=0;
49        if(b1==2020)
50            c++;
51        if(b2==2020)
52            c++;
53        if(b3==2020)
54            c++;
55        System.out.println("no of books published in 2020:"+c);
56    }
57    static void number(book o1,book o2,book o3)
58    {
59        book object=new book();
60        if((o1.no_of_page<o2.no_of_page)&&(o1.no_of_page<o3.no_of_page))
61            object=o1;
62        else if(o2.no_of_page<o3.no_of_page)
63            object=o2;
64        else
65            object=o3;
66        System.out.println("details of the book with least no of pages:");
67        System.out.println("book id :"+object.bookid);
68        System.out.println("book title :"+object.booktitle);
69        System.out.println("author:"+object.author);
70        System.out.println("publisher:"+object.publisher);
71        System.out.println("no_of+pages:"+object.no_of_page);
72        System.out.println("year of publishing:"+object.year_of_pub);
73        System.out.println("price of the book:"+object.price);
74    }
75    public static void main(String args[])
76    {
77        book obj1=new book();
78        book obj2=new book();
79        book obj3=new book();
80        System.out.println("book 1:");
81        obj1.accept();
82        System.out.println("book 2:");
83        obj2.accept();
84        System.out.println("book 3:");
85        obj3.accept();
86        System.out.println("book 1:");
87        obj1.display();
88        System.out.println("book 2:");
89        obj2.display();
90        System.out.println("book 3:");
91        obj3.display();

```

```

91         obj3.display();
92     expensive(obj1.price,obj2.price,obj3.price,obj1.booktitle,obj2.booktitle,obj3.booktitle);
93     count(obj1.year_of_pub,obj2.year_of_pub,obj3.year_of_pub);
94     number(obj1,obj2,obj3);
95 }
96 }
97
98

```

compiled and executed in 103.966 sec(s)

```

book 1:
enter the bookid:
s22
enter the booktitle:
harry potter
enter the author of the book:
jk rowling
enter the publisher of the book:
mark
enter the no of pages of the book:
600
enter the year of publishing the book:
1999
enter the price of the book:
2000
book 2:
enter the bookid:
s27
enter the booktitle:
the glass house
enter the author of the book:
derik
enter the publisher of the book:
dylan
enter the no of pages of the book:
400
enter the year of publishing the book:
2020
enter the price of the book:
1870
book 3:
enter the bookid:
s11
enter the booktitle:
my dark vanessa
enter the author of the book:
brent
enter the publisher of the book:
dom

```

```

enter the no of pages of the book:
250
enter the year of publishing the book:
2017
enter the price of the book:
700
book 1:
details of the book:
book id :s22
book title :harry potter
author:jk rowling
publisher:mark
no_of+pages:250
year of publishing:2017
price of the book:700
book 2:
details of the book:
book id :s27
book title :the glass ousehouse
author:derik
publisher:dylan
no_of+pages:250
year of publishing:2017
price of the book:700
book 3:
details of the book:
book id :s11
book title :my dark vanessa
author:brent
publisher:dom
no_of+pages:250
year of publishing:2017
price of the book:700
most expensive book:my dark vanessa
no of books published in 2020:0
details of the book with least no of pages:
book id :s11
book title :my dark vanessa
author:brent
publisher:dom
no_of+pages:250
year of publishing:2017
price of the book:700
|

```

```

1 import java.util.*;
2 public class evenarray
3 {
4     public static void main(String args[])
5     {
6         int ar[],n,o[],e[],temp1=0,temp2=0,sum=0;
7         int i;
8         Scanner in=new Scanner(System.in);
9         System.out.println("enter the number of elements:");
10        n=in.nextInt();
11        ar=new int[n];
12        int m=n/2+1;
13        o=new int[m];
14        e=new int[m];
15        System.out.print("enter "+n+" "+"elements:\n");
16        for(i=0;i<n;i++)
17            ar[i]=in.nextInt();
18        for(i=0;i<n;i++)
19        {
20            if(ar[i]%2==0)
21                e[temp1++]=ar[i];
22            else
23                o[temp2++]=ar[i];
24        }
25        System.out.println("even elements in array:\n");
26        for(i=0;i<temp1;i++)
27            System.out.print(e[i]+" ");
28        System.out.println();
29        System.out.print("odd elements in array: \n");
30        for(i=0;i<temp2;i++)
31            System.out.print(o[i]+" ");

```

```

33     int min=e[0];
34     int max=e[0];
35     for(i=0;i<temp1;i++)
36     {
37         sum=sum+e[i];
38         if(e[i]>max)
39             max=e[i];
40         if(e[i]<min)
41             min=e[i];
42     }
43     float avg=sum/temp1;
44     System.out.println("\n sum of even array:"+sum);
45     System.out.println("average of even array:"+avg);
46     System.out.println("maximum value in even array:"+max);
47     System.out.println("minimum value in even array:"+min);
48 }
49 }
50 |
51

```

compiled and executed in 10.498 sec(s)

```

enter the number of elements:
5
enter 5 elements:
2
9
6
4
7
even elements in array:

2 6 4
odd elements in array:
9 7
sum of even array:12
average of even array:4.0
maximum value in even array:6
minimum value in even array:2

```