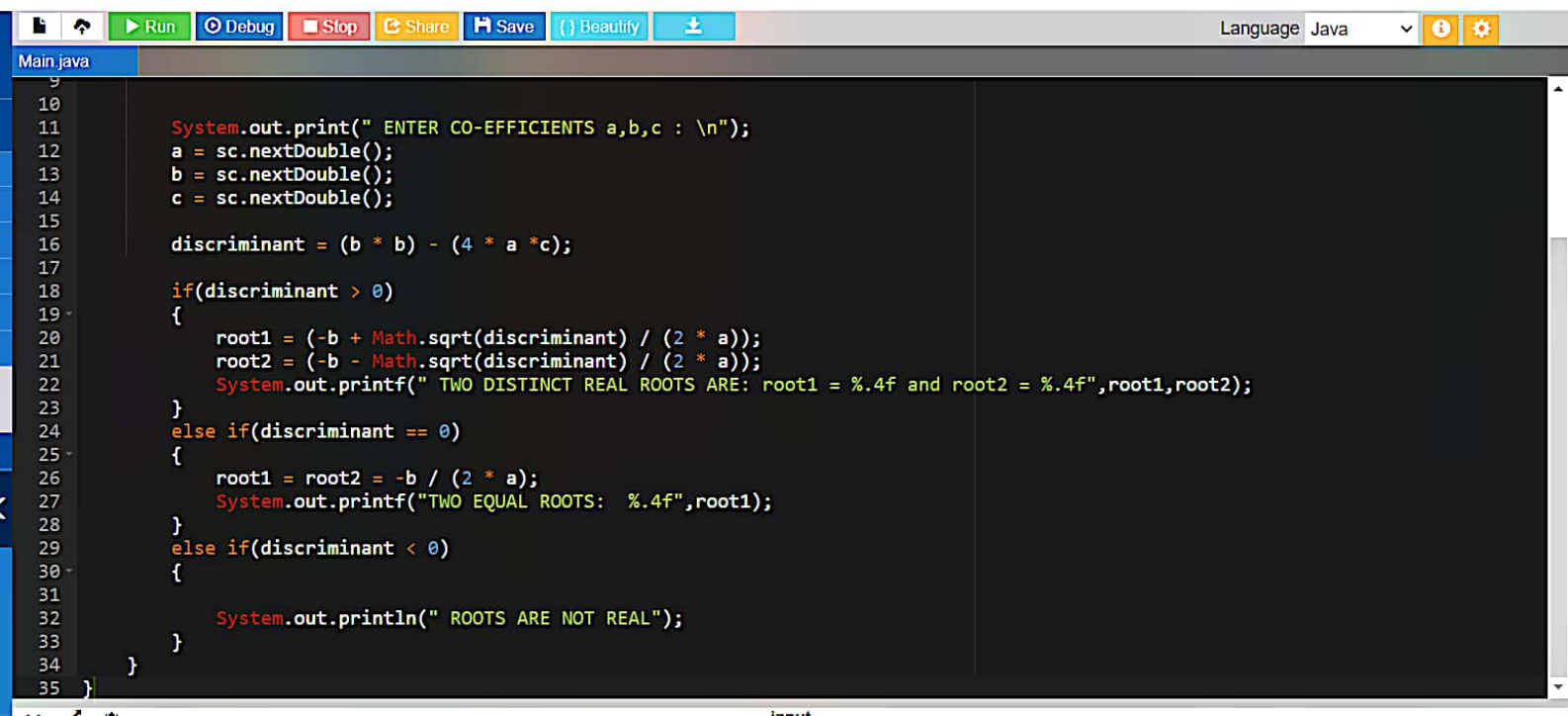


The screenshot shows a Java IDE with a toolbar at the top containing icons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Java. The code in the editor is as follows:

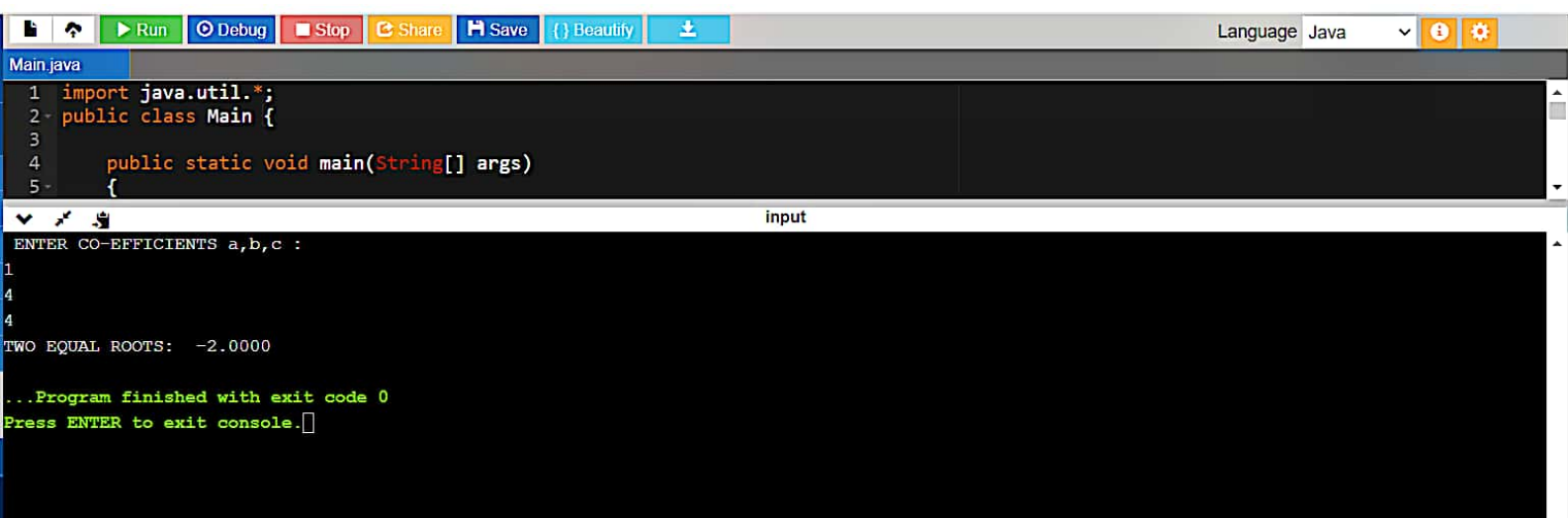
```
1 import java.util.*;
2 public class Main {
3
4     public static void main(String[] args)
5     {
6         double a, b, c;
7         double root1, root2, imaginary, discriminant;
8         Scanner sc = new Scanner(System.in);
9
10
11         System.out.print(" ENTER CO-EFFICIENTS a,b,c : \n");
12         a = sc.nextDouble();
13         b = sc.nextDouble();
14         c = sc.nextDouble();
15
16         discriminant = (b * b) - (4 * a * c);
17
18         if(discriminant > 0)
19         {
20             root1 = (-b + Math.sqrt(discriminant) / (2 * a));
21             root2 = (-b - Math.sqrt(discriminant) / (2 * a));
22             System.out.printf(" TWO DISTINCT REAL ROOTS ARE: root1 = %.4f and root2 = %.4f",root1,root2);
23         }
24         else if(discriminant == 0)
25         {
26             root1 = root2 = -b / (2 * a);
27             System.out.printf("TWO EQUAL ROOTS: %.4f", root1);
```

Below the code editor, there is an input field with the text "input".



The image shows a screenshot of an IDE window with a dark theme. The top toolbar contains icons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Java. The editor displays a Java file named 'Main.java' with the following code:

```
9
10
11 System.out.print(" ENTER CO-EFFICIENTS a,b,c : \n");
12 a = sc.nextDouble();
13 b = sc.nextDouble();
14 c = sc.nextDouble();
15
16 discriminant = (b * b) - (4 * a * c);
17
18 if(discriminant > 0)
19 {
20     root1 = (-b + Math.sqrt(discriminant) / (2 * a));
21     root2 = (-b - Math.sqrt(discriminant) / (2 * a));
22     System.out.printf(" TWO DISTINCT REAL ROOTS ARE: root1 = %.4f and root2 = %.4f",root1,root2);
23 }
24 else if(discriminant == 0)
25 {
26     root1 = root2 = -b / (2 * a);
27     System.out.printf("TWO EQUAL ROOTS: %.4f",root1);
28 }
29 else if(discriminant < 0)
30 {
31
32     System.out.println(" ROOTS ARE NOT REAL");
33 }
34 }
35 }
```



The image shows a screenshot of an IDE interface. At the top, there is a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. To the right of the toolbar is a 'Language' dropdown menu set to 'Java' and two icons (info and settings). Below the toolbar, the editor displays a Java file named 'Main.java' with the following code:

```
1 import java.util.*;  
2 public class Main {  
3  
4     public static void main(String[] args)  
5     {
```

Below the editor, there is a console window titled 'input'. It shows the following output:

```
ENTER CO-EFFICIENTS a,b,c :  
1  
4  
4  
TWO EQUAL ROOTS: -2.0000  
...Program finished with exit code 0  
Press ENTER to exit console.
```

```
1 import java.util.Scanner;
2 public class Main
3 {
4     public static void main(String[] args)
5     {
6         int n, sumE = 0, sumO = 0;
7         Scanner s = new Scanner(System.in);
8         System.out.print("Enter the number of elements in array:");
9         n = s.nextInt();
10        int[] a = new int[n];
11        System.out.println("Enter the elements of the array:");
12        for(int i = 0; i < n; i++)
13        {
14            a[i] = s.nextInt();
15        }
16        for(int i = 0; i < n; i++)
17        {
18            if(a[i] % 2 == 0)
19            {
20                sumE = sumE + a[i];
21            }
22            else
23            {
24                sumO = sumO + a[i];
25            }
26        }
27        System.out.println("Sum of Even Numbers: "+sumE);
28    }
29 }
```

The image shows a screenshot of a Java IDE. At the top, there is a toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Java. The main editor window displays a Java program named 'Main.java'. The code is as follows:

```
4 public static void main(String[] args)
5 {
6     int n, sumE = 0, sumO = 0;
7     Scanner s = new Scanner(System.in);
8     System.out.print("Enter the number of elements in array:");
9     n = s.nextInt();
10    int[] a = new int[n];
11    System.out.println("Enter the elements of the array:");
12    for(int i = 0; i < n; i++)
13    {
14        a[i] = s.nextInt();
15    }
16    for(int i = 0; i < n; i++)
17    {
18        if(a[i] % 2 == 0)
19        {
20            sumE = sumE + a[i];
21        }
22        else
23        {
24            sumO = sumO + a[i];
25        }
26    }
27    System.out.println("Sum of Even Numbers:"+sumE);
28    System.out.println("Sum of Odd Numbers:"+sumO);
29 }
30 }
```

Below the code editor, there is an 'input' field.

input

Enter the number of elements in array:5

Enter the elements of the array:

5

6

7

8

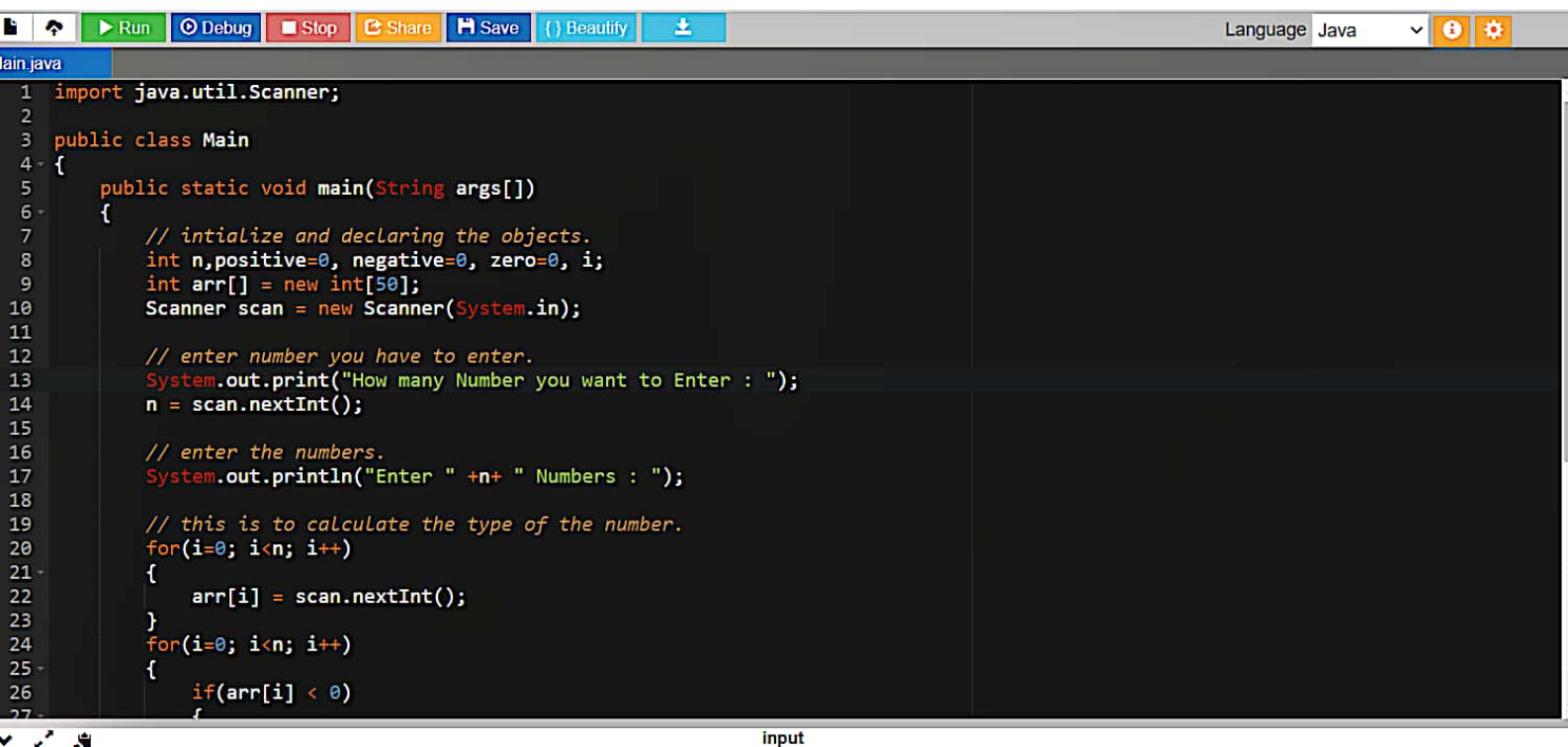
9

Sum of Even Numbers:14

Sum of Odd Numbers:21

...Program finished with exit code 0

Press ENTER to exit console.



The image shows a screenshot of a Java IDE. The top toolbar contains buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Java. The code editor displays a Java program named Main.java. The code imports java.util.Scanner, defines a public class Main, and contains a main method. Inside the main method, it initializes variables n, positive, negative, zero, and i. It creates an array arr of size 50 and a Scanner object scan. It prompts the user to enter the number of numbers to enter, reads the input n, and then prompts the user to enter the numbers. It then iterates through the array, reading each number and checking if it is less than 0. The console window at the bottom shows the word 'input'.

```
1 import java.util.Scanner;
2
3 public class Main
4 {
5     public static void main(String args[])
6     {
7         // intialize and declaring the objects.
8         int n,positive=0, negative=0, zero=0, i;
9         int arr[] = new int[50];
10        Scanner scan = new Scanner(System.in);
11
12        // enter number you have to enter.
13        System.out.print("How many Number you want to Enter : ");
14        n = scan.nextInt();
15
16        // enter the numbers.
17        System.out.println("Enter " +n+ " Numbers : ");
18
19        // this is to calculate the type of the number.
20        for(i=0; i<n; i++)
21        {
22            arr[i] = scan.nextInt();
23        }
24        for(i=0; i<n; i++)
25        {
26            if(arr[i] < 0)
27            {
```

input

```
Main.java
18
19 // this is to calculate the type of the number.
20 for(i=0; i<n; i++)
21 {
22     arr[i] = scan.nextInt();
23 }
24 for(i=0; i<n; i++)
25 {
26     if(arr[i] < 0)
27     {
28         negative++;
29     }
30     else if(arr[i] == 0)
31     {
32         zero++;
33     }
34     else
35     {
36         positive++;
37     }
38 }
39 // print all +ve,-ve and zero number.
40 System.out.print("Positive Numbers are: " + positive );
41 System.out.print("\nNegative Numbers are: " + negative );
42 System.out.print("\nZeros are: " + zero );
43 }
44 }
```


How many Number you want to Enter : 5

Enter 5 Numbers :

0

20

-30

-2

4

Positive Numbers are: 2

Negative Numbers are: 2

Zeros are: 1

...Program finished with exit code 0

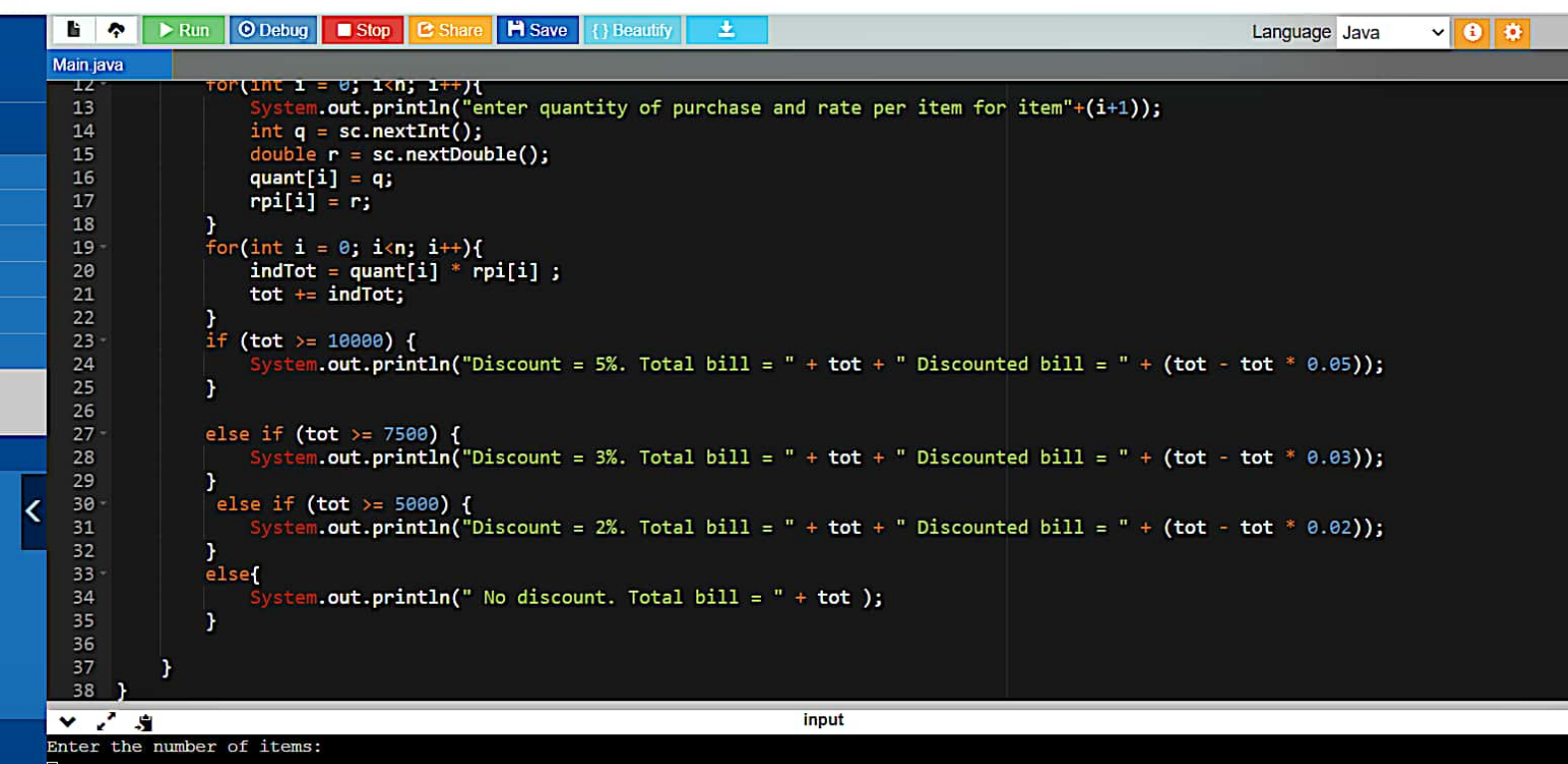
Press ENTER to exit console.

ivigps

```
1 import java.util.Scanner;
2 public class Main{
3     public static void main(String[] args){
4         Scanner sc = new Scanner(System.in);
5
6
7         System.out.println("Enter the number of items:");
8         int n = sc.nextInt();
9         double indTot, tot = 0;
10        double[] rpi = new double[n];
11        int[] quant = new int[n];
12        for(int i = 0; i<n; i++){
13            System.out.println("enter quantity of purchase and rate per item for item" + (i+1));
14            int q = sc.nextInt();
15            double r = sc.nextDouble();
16            quant[i] = q;
17            rpi[i] = r;
18        }
19        for(int i = 0; i<n; i++){
20            indTot = quant[i] * rpi[i] ;
21            tot += indTot;
22        }
23        if (tot >= 10000) {
24            System.out.println("Discount = 5%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.05));
25        }
26
27        else if (tot >= 7500) {
```

input

Enter the number of items:
□



```
12-  
13-  
14-  
15-  
16-  
17-  
18-  
19-  
20-  
21-  
22-  
23-  
24-  
25-  
26-  
27-  
28-  
29-  
30-  
31-  
32-  
33-  
34-  
35-  
36-  
37-  
38-  
Main.java  
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;  
    rpi[i] = r;  
}  
for(int i = 0; i<n; i++){  
    indTot = quant[i] * rpi[i] ;  
    tot += indTot;  
}  
if (tot >= 10000) {  
    System.out.println("Discount = 5%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.05));  
}  
  
else if (tot >= 7500) {  
    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 = " + tot + " Discounted bill = " + (tot - tot * 0.02));  
}  
else{  
    System.out.println(" No discount. Total bill = " + tot );  
}  
}
```

Language Java

input

Enter the number of items:

```
15 double r = sc.nextDouble();  
16 quant[i] = q;  
17 if(i == 3)
```

input

Enter the number of items:

3

enter quantity of purchase and rate per item for item1

200

300

enter quantity of purchase and rate per item for item2

3000

100

enter quantity of purchase and rate per item for item3

2000

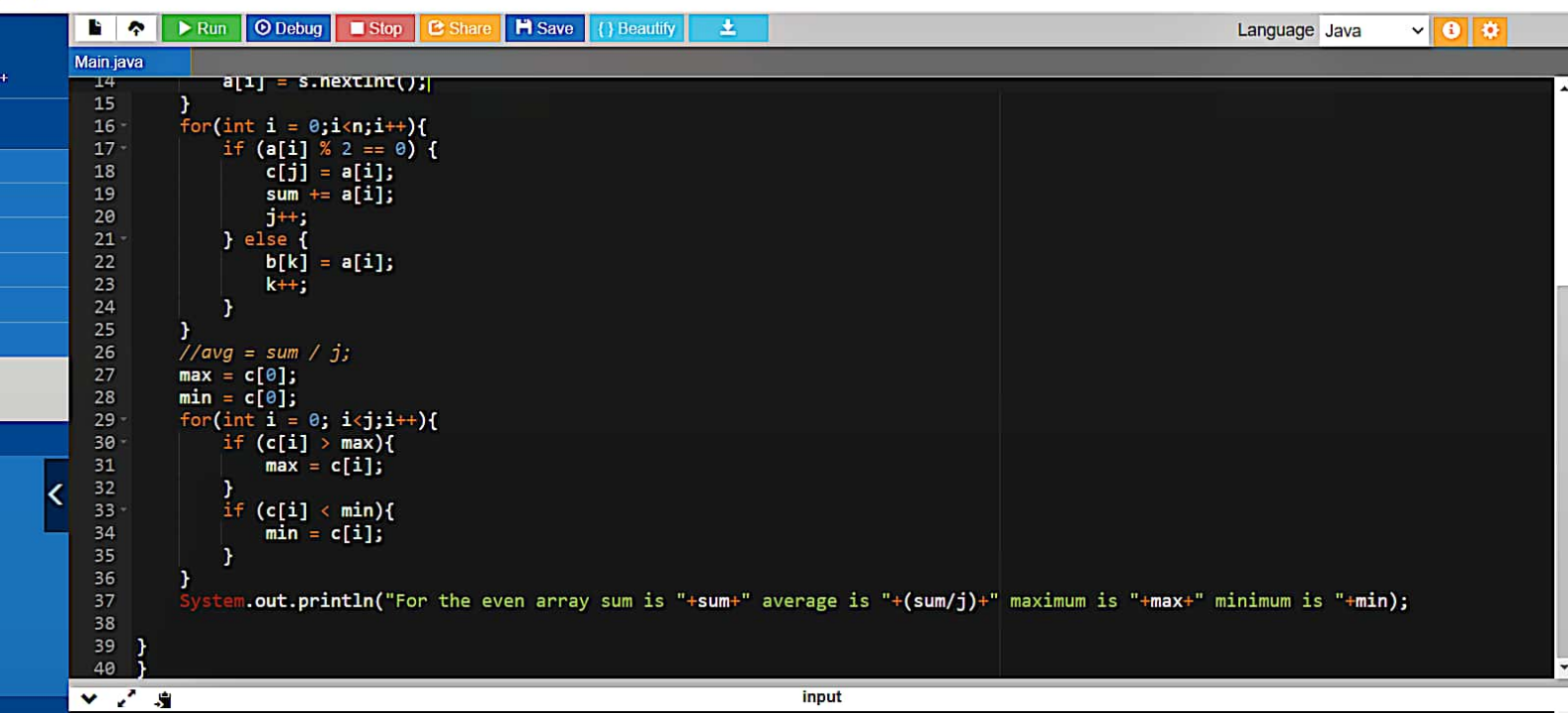
10

Discount = 5%. Total bill = 380000.0 Discounted bill = 361000.0

...Program finished with exit code 0

Press ENTER to exit console.

```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args){
5         int n, j = 0, k = 0, sum = 0, avg, max, min;
6         Scanner s = new Scanner(System.in);
7         System.out.print("Enter the number of elements in array:");
8         n=s.nextInt();
9         int[] a = new int[n];
10        int[] b = new int[n];
11        int[] c = new int[n];
12        System.out.println("Enter the elements of the array:");
13        for(int i = 0;i<n;i++){
14            a[i] = s.nextInt();
15        }
16        for(int i = 0;i<n;i++){
17            if (a[i] % 2 == 0) {
18                c[j] = a[i];
19                sum += a[i];
20                j++;
21            } else {
22                b[k] = a[i];
23                k++;
24            }
25        }
26        //avg = sum / j;
27        max = c[0];
```



The screenshot shows an IDE window with a Java file named 'Main.java'. The code processes an array 'a' of size 'n'. It iterates through the array, separating even and odd indexed elements into arrays 'c' and 'b'. It then calculates the sum, average, maximum, and minimum of the even-indexed elements. The IDE interface includes a top toolbar with buttons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The Language dropdown is set to Java. The bottom status bar shows 'input'.

```
14     a[i] = s.nextInt();
15 }
16 for(int i = 0; i < n; i++){
17     if (a[i] % 2 == 0) {
18         c[j] = a[i];
19         sum += a[i];
20         j++;
21     } else {
22         b[k] = a[i];
23         k++;
24     }
25 }
26 //avg = sum / j;
27 max = c[0];
28 min = c[0];
29 for(int i = 0; i < j; i++){
30     if (c[i] > max){
31         max = c[i];
32     }
33     if (c[i] < min){
34         min = c[i];
35     }
36 }
37 System.out.println("For the even array sum is "+sum+" average is "+(sum/j)+" maximum is "+max+" minimum is "+min);
38
39 }
40 }
```

```
18      c[j] = a[i];  
19      sum = 513;  
20  
21      input  
22  
23      Enter the number of elements in array:5  
24      Enter the elements of the array:  
25      20  
26      1  
27      2  
28      56  
29      78  
30      For the even array sum is 156 average is 39 maximum is 78 minimum is 2  
31  
32      ...Program finished with exit code 0  
33      Press ENTER to exit console.
```