

```
File Edit Selection View Go Run Terminal Help Transpose.java - java - Visual Studio Code
PROBLEMS 80 OUTPUT DEBUG CONSOLE TERMINAL REFACTOR PREVIEW 1: Java Process Console + - X
Number of negative numbers :1
Number of Zeros :1 > cd 'c:\Users\Harshita\Desktop\java'; & 'c:\Users\Harshita\.vscode\extensions\vscjava.vscode-java-debug-0.29.0\scripts\launcher.bat' 'C:\Program Files\Java\jdk-15\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\Harshita\AppData\Roaming\Code\User\workspaceStorage\f5f4548b7f2d433461e78f3e7aac8618\redhat.java\jdt_ws\java_d8a9cd1d\bin' 'Transpose'
Enter total rows and columns:
2 3
Enter matrix:
1
2
3
4
5
6
The above matrix before Transpose is
1 2 3
4 5 6
The above matrix after Transpose is
1 4
2 5
3 6
PS C:\Users\Harshita\Desktop\java>
```

File Edit Selection View Go Run Terminal Help

CircleDemo.java - java - Visual Studio Code

Transpose.java CircleDemo.java X Actor.java Sorted.java Array.java String.java

CircleDemo.java > CircleDemo > main(String[])

```
1
2 /*Develop a Java program which has the (only) class CircleDemo that has members-
3 radius, area and perimeter. Include methods to do the following.
4
5 a. accept the radius from the user
6 b. find the area of the circle
7 c. find the perimeter of the circle
8 d. Display all the details*/
9 import java.util.Scanner;
10 public class CircleDemo {
11     double r;
12     double a;
13     double p;
14     static double pi=3.14;
15     double accept(){
16         System.out.println("Enter the details");
17         System.out.println("Enter the radius of circle");
18         Scanner ss= new Scanner(System.in);
19         r=ss.nextFloat();
20         return r;
21     }
22     double calarea(){
23         a=pi*r*r;
24         p=2*pi*r;
25         return a;
26     }
27
28     double calperi(){
29         p=2*pi*r;
30         return p;
31     }
32 }
33 Run | Debug
34 public static void main(String args[]){
35     CircleDemo ob=new CircleDemo();
36     System.out.println(ob.accept());
37     System.out.println("The area of circle:");
38     System.out.println(ob.calarea());
39     System.out.println("The perimeter of circle:");
40     System.out.println(ob.calperi());
41
42 }
43
44 }
45
```

Ln 42, Col 6 Spaces: 4 UTF-8 CRLF Java JavaSE-15

00:37 09-11-2020

CircleDemo.java - java - Visual Studio Code

File Edit Selection View Go Run Terminal Help

Transpose.java CircleDemo.java X Actor.java Sorted.java Array.java String.java

CircleDemo.java > CircleDemo > main(String[])

```
1
2 /*Develop a Java program which has the (only) class CircleDemo that has members-
3 radius, area and perimeter. Include methods to do the following.
4
5 a. accept the radius from the user
6 b. find the area of the circle
7 c. find the perimeter of the circle
8 d. Display all the details*/
9 import java.util.Scanner;
10 public class CircleDemo {
11     double r;
12     double a;
13     double p;
14     static double pi=3.14;
15     double accept(){
16         System.out.println("Enter the details");
17         System.out.println("Enter the radius of circle");
18         Scanner ss= new Scanner(System.in);
19         r=ss.nextFloat();
20         return r;
21     }
22 }
```

PROBLEMS 78 OUTPUT DEBUG CONSOLE TERMINAL REFACTOR PREVIEW

1: Java Process Console

```
at CircleDemo.cal(CircleDemo.java:25)
at CircleDemo.main(CircleDemo.java:34)
PS C:\Users\Harshita\Desktop\java> cd 'c:\Users\Harshita\Desktop\java'; & 'c:\Users\Harshita\.vscode\extensions\vscjava.vscode-java-debug-0.29.0\scripts\launcher.bat' 'C:\Program Files\Java\jdk-15\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\Harshita\AppData\Roaming\Code\User\workspaceStorage\f5f4548b7f2d433461e78f3e7aac8618\redhat.java\jdt_ws\java_d8a9cd1d\bin' 'CircleDemo'
Enter the details
Enter the radius of circle
4
4.0
The area of circle:
50.24
The perimeter of circle:
25.12
PS C:\Users\Harshita\Desktop\java> 
```

Ln 42, Col 6 Spaces: 4 UTF-8 CRLF Java JavaSE-15

Type here to search

41

00:37 09-11-2020

FileEditSelectionViewGoRunTerminalHelp

Actor.java - java - Visual Studio Code

Transpose.javaCircleDemo.javaActor.javaSorted.javaArray.javaString.java

Actor.java > actor > average()

```
1 import java.util.Scanner;
2 class actor{
3     int noofmovies;
4     int yearsofexp;
5     String name;
6     int id;
7     double avg;
8     static String highestavg;
9     Scanner sc = new Scanner(System.in);
10
11     void average(){
12         avg = (noofmovies/yearsofexp);
13     }
14
15     void accept(){
16         System.out.print("NAME :");
17         name = sc.next();
18         System.out.print("ID :");
19         id = sc.nextInt();
20         System.out.print("NO OF MOVIES :");
21         noofmovies = sc.nextInt();
22         System.out.print("YEARS OF EXPERIENCE :");
23         yearsofexp = sc.nextInt();
24     }
25
26
27     void display(){
28         System.out.println(name+" "+id+" "+avg+" "+noofmovies+" "+yearsofexp);
29     }
30
31 }
32
33
34 class actormain{
35     public static void main(String ss[]){
```

Ln 12, Col 41Spaces: 4UTF-8CRLFJavaJavaSE-15

Windows Taskbar

Type here to search

00:3709-11-2020

Visual Studio Code interface showing a Java file named `Actor.java` with the following code:

```
35 public static void main(String ss[]){
36     int n;
37     Scanner sc = new Scanner(System.in);
38     System.out.println("ENTER NO OF ACTORS DETAILS YOU WANT TO ENTER");
39     n = sc.nextInt();
40     actor a1[] = new actor[n];
41
42     for(int i=0;i<n;i++){
43         System.out.println("-----");
44         System.out.println("ENTER ACTOR :"+(i+1));
45         a1[i] = new actor();
46         a1[i].accept();
47         a1[i].average();
48     }
49
50
51
52
53     System.out.println("\n*****");
54     System.out.println(" S.NO | NAME | ID | AVERAGE | NO.MOVIES | YEARS ");
55     System.out.println("-----");
56     for(int i=0;i<n;i++){
57         System.out.print("      "+(i+1)+"    ");
58         a1[i].display();
59         System.out.println("-----");
60     }
61
62
63     double l = 0;
64     int index=0;
65     for(int i=0;i<a1.length;i++){
66         if(a1[i].avg > l){
67             l = a1[i].avg;
68             actor.highestavg = a1[i].name;
69             index = i+1;
70         }
    }
```

The bottom status bar shows: Ln 12, Col 40 | Spaces: 4 | UTF-8 | CRLF | Java | JavaSE-15 | 00:40 | 09-11-2020

Visual Studio Code editor window showing a Java file named `Actor.java`. The editor displays the following code:

```
58     System.out.println("Highest average amount of all actor is: ");
59     a1[i].display();
60     System.out.println("_____");
61 }
62
63 double l = 0;
64 int index=0;
65 for(int i=0;i<a1.length;i++){
66     if(a1[i].avg > l){
67         l = a1[i].avg;
68         actor.highestavg = a1[i].name;
69         index = i+1;
70     }
71 }
72
73
74 System.out.println("\n*****\n");
75 System.out.println("HIGHEST AVERAGE AMOUNT ALL ACTOR IS:");
76 System.out.println("|"+index+"TH MEMBER IN TABLE "+"AND AVERAGE IS :"+l);
77 System.out.println("ACTOR NAME :"+actor.highestavg);
78 System.out.println("\n*****");
79
80
81
82
83 }
84 }
```

The status bar at the bottom indicates the current position is Line 12, Column 40, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language mode. The system tray shows the time as 00:40 on 09-11-2020.

FileEditSelectionViewGoRunTerminalHelp

Actor.java - java - Visual Studio Code

2: Java Process Console

PROBLEMS78OUTPUTDEBUG CONSOLETERMINALREFACTOR PREVIEW

ENTER NO OF ACTORS DETAILS YOU WANT TO ENTER
2

ENTER ACTOR :1
NAME :Harshita
ID :12345
NO OF MOVIES :4
YEARS OF EXPERIENCE :6

ENTER ACTOR :2
NAME :XYZ
ID :98760
NO OF MOVIES :3
YEARS OF EXPERIENCE :5

S.NO | NAME | ID | AVERAGE | NO.MOVIES | YEARS

1) Harshita *12345 0.0 4 6

2) XYZ *98760 0.0 3 5

HIGHEST AVERAGE AMOUNG ALL ACTOR IS:
|0TH MEMBER IN TABLE
|AND AVERAGE IS :0.0
|ACTOR NAME :null

PS C:\Users\Harshita\Desktop\java>

6315

Ln 12, Col 40Spaces: 4UTF-8CRLFJavaJavaSE-15

Windows Taskbar

Search: Type here to search

Taskbar Icons

System Tray

File Edit Selection View Go Run Terminal HelpSorted.java - java - Visual Studio Code

Transpose.javaCircleDemo.javaActor.javaSorted.java ×Array.javaString.java

Sorted.java > Sorted

```
1  /*Develop a Java program to accept the values of a double array through command line.
2  Display the sorted array.*/
3  class Sorted
4  {
5      Run | Debug
6      public static void main(String sss[])
7      {
8          double[] arr=new double[sss.length];
9          for(int i=0;i<sss.length;i++)
10         {
11             arr[i]=Double.parseDouble(sss[i]);
12         }
13         for (int i=0;i<sss.length;i++)
14         {
15             for (int j=0;j<arr.length;j++)
16             {
17                 if(arr[i]>arr[j])
18                 {
19                     double c=arr[i];
20                     arr[i]=arr[j];
21                     arr[j]=c;
22                 }
23             }
24         }
25         for(int i=0;i<sss.length;i++)
26         {
27             System.out.println(arr[i]);
28         }
29     }
30 }
31 }
```

Ln 30, Col 6 Spaces: 4 UTF-8 CRLF Java JavaSE-15

FileEditSelectionViewGoRunTerminalHelp

Sorted.java - java - Visual Studio Code

Transpose.javaCircleDemo.javaActor.javaSorted.java ×Array.javaString.java

Sorted.java > Sorted > main(String[])

1 /*Develop a Java program to accept the values of a double array through command line.
2 Display the sorted array.*/
3 class Sorted
4 {
5 Run | Debug
6 public static void main(String sss[])
7 {
8 double[] arr=new double[sss.length];
9 for(int i=0;i<sss.length;i++)
10 {
11 arr[i]=Double.parseDouble(sss[i]);
12 }
13 for (int i=0;i<sss.length;i++)
14 {
15 for (int j=0;j<arr.length;j++)
16 {
17 if(sss[i]>arr[j])
18 {
19 double temp=arr[i];
20 arr[i]=arr[j];
21 arr[j]=temp;
22 }
23 }
24 }
25 }
26 }
27 }
28 }
29 }
30 }
31 }
32 }
33 }
34 }
35 }
36 }
37 }
38 }
39 }
40 }
41 }
42 }
43 }
44 }
45 }
46 }
47 }
48 }
49 }
50 }
51 }
52 }
53 }
54 }
55 }
56 }
57 }
58 }
59 }
60 }
61 }
62 }
63 }
64 }
65 }
66 }
67 }
68 }
69 }
70 }
71 }
72 }
73 }
74 }
75 }
76 }
77 }
78 }
79 }
80 }
81 }
82 }
83 }
84 }
85 }
86 }
87 }
88 }
89 }
90 }
91 }
92 }
93 }
94 }
95 }
96 }
97 }
98 }
99 }
100 }

PROBLEMS 78OUTPUTDEBUG CONSOLETERMINALREFACTOR PREVIEW

2: Java Process Console + - X

PS C:\Users\Harshita\Desktop\java> cd 'c:\Users\Harshita\Desktop\java'; & 'c:\Users\Harshita\.vscode\extensions\vscjava.vscode-java-debug-0.29.0\scripts\launcher.bat' 'C:\Program Files\Java\jdk-15\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\Harshita\AppData\Roaming\Code\User\workspaceStorage\f5f4548b7f2d433461e78f3e7aac8618\redhat.java\jdt_ws\java_d8a9cd1d\bin' 'Sorted'
PS C:\Users\Harshita\Desktop\java> java Sorted 11.0 22.0 33.0 44.0
44.0
33.0
22.0
11.0
PS C:\Users\Harshita\Desktop\java>

Ln 8, Col 39Spaces: 4UTF-8CRLFJavaJavaSE-1500:5409-11-2020

Windows Taskbar

FileEditSelectionViewGoRunTerminalHelp

Array.java - java - Visual Studio Code

Transpose.javaCircleDemo.javaActor.javaSorted.javaArray.javaString.java

Array.java > number > main(String[])
1 import java.util.Scanner;
2 class number
3 {
Run | Debug
4 public static void main(String args[])
5 {
6 int positive=0,negative=0,zero=0,i,n;
7 double temp=0.0;
8 Scanner ss=new Scanner(System.in);
9 System.out.println("Enter the size of the array");
10 n=ss.nextInt();
11 double[] full=new double[n];
12 double[] pos=new double[n];
13 double[] neg=new double[n];
14 System.out.println("Enter the elements of the array");
15 for(i=0;i<n;i++)
16 {
17 full[i]=ss.nextInt();
18 }
19 if(full[i]>0)
20 {
21 for(i=0;i<n;i++)
22 {
23 temp=full[i];
24 pos[i]=temp;
25 positive++;
26 System.out.println("array of positive numbers:"+ pos[i]);
27 }
28 }
29 }
30
31 if(full[i]==0)
32 {
33 zero++;
34 }
35 if(full[i]<0)

Ln 26, Col 77Spaces: 4UTF-8CRLFJavaJavaSE-15

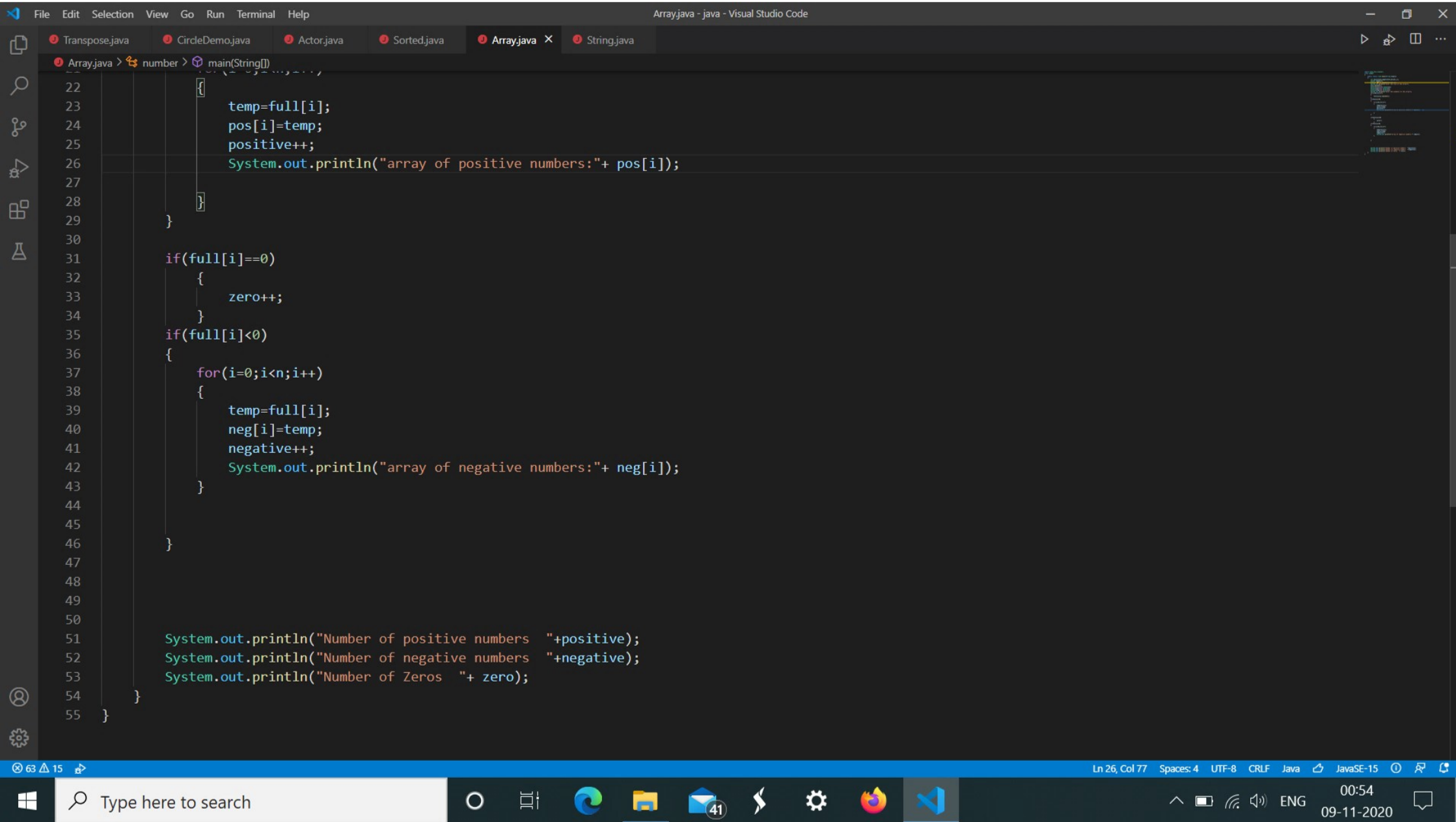
Windows Taskbar

Type here to search

Taskbar Icons

System Tray

00:5409-11-2020



File Edit Selection View Go Run Terminal Help Array.java - java - Visual Studio Code

Transpose.java CircleDemo.java Actor.java Sorted.java Array.java X String.java

Array.java > number > main(String[])

```
19 System.out.println("array with positive numbers:");
20 for(i=0;i<n;i++)
21 {
22     if(full[i]>0)
23     {
24         temp=full[i];
25         pos[i]=temp;
26         positive++;
27         System.out.println(pos[i]);
28     }
29 }
30 System.out.println("Number of positive numbers :"+positive);
31 System.out.println("array with negative numbers:");
32 for(i=0;i<n;i++)
33 {
34     if(full[i]<0)
```

PROBLEMS 78 OUTPUT DEBUG CONSOLE TERMINAL REFACTOR PREVIEW 2: Java Process Console

6
0
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 6 out of bounds for length 6
at number.main(Array.java:19)
PS C:\Users\Harshita\Desktop\java> cd 'c:\Users\Harshita\Desktop\java'; & 'c:\Users\Harshita\.vscode\extensions\vscjava.vscode-java-debug-0.29.0\scripts\launcher.bat' 'C:\Program Files\Java\jdk-15\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-Dfile.encoding=UTF-8' '-cp' 'C:\Users\Harshita\AppData\Roaming\Code\User\workspaceStorage\f5f4548b7f2d433461e78f3e7aac8618\redhat.java\jdt_ws\java_d8a9cd1d\bin' 'number'
Enter the size of the array:
6
Enter the elements of the array:
1
0
-3
-2
0
5
array with positive numbers:
1.0
5.0
Number of positive numbers :2
array with negative numbers:
-3.0
-2.0
Number of negative numbers :2
Number of Zeros :2
PS C:\Users\Harshita\Desktop\java>

Ln 44, Col 11 Spaces: 4 UTF-8 CRLF Java JavaSE-15 01:00 09-11-2020

String.java - java - Visual Studio Code

File Edit Selection View Go Run Terminal Help

Transpose.java CircleDemo.java Actor.java Sorted.java Array.java String.java X

String.java > Count

```
1 import java.util.Scanner;
2 class Count
3 {
4     public static void main(String args[])
5     {
6         String line;
7         int vowels=0,consonants=0,spaces=0;
8         Scanner xx=new Scanner(System.in);
9         System.out.println("Enter the String");
10        line=xx.nextLine();
11        for(int i=0;i<line.length();i++)
12        {
13            if(line.charAt(i)=='a' || line.charAt(i)=='e' || line.charAt(i)=='i' || line.charAt(i)=='o' || line.charAt(i)=='u')
14            {
15                ++vowels;
16            }
17            else if(line.charAt(i)>='a' && line.charAt(i)<='z')
18            {
19                ++consonants;
20            }
21            else if(line.charAt(i)==' ')
22            {
23                ++spaces;
24            }
25        }
26        System.out.println("No. of Vowels:"+vowels);
27        System.out.println("No. of consonants:"+consonants);
28        System.out.println("No. of spaces:"+spaces);
29    }
30 }
31
32
33 }
```

Run | Debug

Ln 3, Col 3 Spaces: 4 UTF-8 CRLF Java JavaSE-15

01:00 09-11-2020

