

The screenshot shows a Java development environment with several open files in the Explorer pane, including AutoArray.class, AutoArray.java, Example.java, First.class, First.java, ISample.class, ISample.java, Quadratic.class, Quadratic.java, RectangleArea.java, ScanSample.class, ScanSample.java, Second.class, Second.java, Sum.class, and Sum.java. The Quadratic.java file is the active editor, displaying code for solving quadratic equations. A Copilot AI sidebar is visible on the right, with a welcome message and a text input field for adding context.

```
1  package Quadratic;
2  import java.util.*;
3
4  public class Quadratic {
5      public static void main(String[] args) {
6          Scanner sc = new Scanner(System.in);
7          double a,b,c,r1,r2,d;
8          System.out.println("enter the coefficient");
9          a = sc.nextDouble();
10         b = sc.nextDouble();
11         c = sc.nextDouble();
12         if(a==0)
13             System.out.println("not a quadratic");
14         else{
15             d = b*b-4*a*c;
16             if(d>0)
17                 System.out.println("roots are real and distinct");
18             r1 = (-b+Math.sqrt(d))/(2*a);
19             r2 = (-b-Math.sqrt(d))/(2*a);
20             System.out.println("the roots are");
21             System.out.println(r1);
22             System.out.println(r2);
23         }
24         else if(d<0){
25             System.out.println("roots are imaginary");
26             r1 = -b/(2*a);
27             r2 = Math.sqrt(Math.abs(d))/(2*a);
28             System.out.println("the roots are");
29             System.out.println(r1+"i"+r2);
30             System.out.println(r1+"-i"+r2);
31         }
32         else{
33             System.out.println("the roots are real and equal");
34             r1 = -b/(2*a);
35             System.out.println("the roots are");
36             System.out.println(r1);
37         }
38     }
39 }
40
```

PROBLEMS DEBUG CONSOLE TERMINAL PORTS

```
2.0
PS C:\IDF24CS307> cd "c:\IDF24CS307" ; IF ($?) { javac Quadratic.java } ; IF (?) { java Quadratic }
enter the coefficient
1
2
2
```

powerShell Code

Afternoon rain ENG 11:30:27 IN 23-09-2025

The screenshot shows a Java development environment with a dark theme. The left sidebar displays a project structure for '18F24CS307' containing various Java files like AutoArray.class, AutoArray.java, Example.java, First.class, First.java, ISample.class, ISample.java, Quadratic.class, Quadratic.java, RectangleArea.java, ScanSample.class, ScanSample.java, Second.class, Second.java, Sum.class, and Sum.java. The 'Quadratic.java' file is open in the center editor, showing a Java program that calculates quadratic roots. The right side features a 'Welcome to Copilot' panel with a 'Let's get started' button and a 'Copilot' icon. Below it is a terminal window showing command-line interactions with the Java compiler and runtime. The bottom status bar includes system information like 'In 28, Col 53' and 'Java'. A search bar at the bottom says 'Type here to search'.

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14             d = b*b-4*a*c;
15             if(d>0){
16                 System.out.println("roots are real and distinct");
17                 r1 = (-b+Math.sqrt(d))/(2*a);
18                 r2 = (-b-Math.sqrt(d))/(2*a);
19                 System.out.println("roots are");
20                 System.out.println(r1);
21                 System.out.println(r2);
22             }
23         }
24     }
25 }
```

PROBLEMS DEBUG CONSOLE TERMINAL FOCUS

```
enter the coefficient
1
4
4
the roots are real and equal
the roots are
2.0
PS C:\18F24CS307> cd "C:\18F24CS307" ; if ($?) { javac Quadratic.java } ; if ($?) { java Quadratic }
enter the coefficient
1
2
2
roots are imaginary
the roots are
-1.0+1i.0
-1.0-1i.0
PS C:\18F24CS307> cd "C:\18F24CS307" ; if ($?) { javac Quadratic.java } ; if ($?) { java Quadratic }
enter the coefficient
1
-5
6
roots are real and distinct
roots are
3.0
2.0
PS C:\18F24CS307>
```