

The screenshot shows the Spring Tool Suite 4 IDE with the following components:

- Package Explorer (Left):** Displays the project structure under 'corejava'. The 'LAB' package is expanded, showing files 'LAB2.java', 'LAB3.java', and 'LAB4.java'. The 'LAB4.java' file is selected.
- Editor (Center):** Displays the code for 'LAB4.java'. The code calculates the area and perimeter of a square based on user input.

```
1 package LAB;
2 import java.util.Scanner;
3 public class LAB4 {
4
5
6
7     public static void main(String[] args) {
8         // Create a Scanner object for user input
9         Scanner scanner = new Scanner(System.in);
10
11         // Prompt the user to enter the side length of the square
12         System.out.print("Enter the side length of the square: ");
13         double sideLength = scanner.nextDouble();
14
15         // Calculate the area and perimeter
16         double area = sideLength * sideLength; // Area = side*2
17         double perimeter = 4 * sideLength; // Perimeter = 4 * side
18
19         // Display the results
20         System.out.println("Area of the square: " + area);
21         System.out.println("Perimeter of the square: " + perimeter);
22
23         // Close the scanner
24         scanner.close();
25     }
26
27
28
29 }
```
- Outline (Right):** Shows the project structure with 'LAB' and 'LAB4' listed.
- Boot Dashboard (Bottom Left):** Shows the 'local' workspace.
- Console (Bottom):** Displays the output of the program:

```
<terminated> LAB4 [Java Declaration] C:\java\sts-4.26.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v20240802-1551\jre\bin\javaw.exe (04-Nov-2024, 1:39:01 pm - 1:39:06 pm) [pid: 19772]
Enter the side length of the square: 97
Area of the square: 9409.0
Perimeter of the square: 388.0
```

```
2
3 public class Main {
4     // Main class to test the CheckingAccount
5
6     public static void main(String[] args) {
7         // Create a CheckingAccount object with an initial balance of $1000
8         CheckingAccount account = new CheckingAccount(10000.0);
9
10        // Display initial balance
11        account.displayBalance();
12
13        // Deposit $500 into the account
14        account.deposit(550.0);
15
16        // Withdraw $300 from the account
17        account.withdraw(450.0);
18
19        // Display the final balance
20        account.displayBalance();
21
22        // Attempt to withdraw an amount greater than the balance
23        account.withdraw(1500.0);
24    }
```

Problems @ Javadoc Declaration Console X



<terminated> Main [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.4.v20240802-1

Current balance: \$10000.0

Deposited: \$550.0

Withdrawn: \$450.0

Current balance: \$10100.0

Withdrawn: \$1500.0