

EXPLORER

## JAVA DEVELOPMENT

&gt; Assingment-1

&gt; Assingment-2

&gt; Homeworks

lib

J Animal.class

J Box.class

J Calculator.class

J Demo.class

J Demo.java

J DiagonalSumCalculator.class

J Dog.class

J ElementOccurrenceCounter.cl...

J EvenOddCounter.class

J GradeCalculator.class

J ObjectCounter.class

J One.class

J SimpleNumberSorter.class

J StudentInfo.class

J Sum.class

J Three.class

J Two.class

J WeekdayCalculator.class

PROBLEMS

OUTPUT

TEST RESULTS

DEBUG CONSOLE

PORTS

TERMINAL

```
PS C:\Users\KIIT\Pictures\Screenshots\Java Development> cd "c:\Users\KIIT\Pictures\Screenshots\Java Development\" ; if ($?) { javac Demo.java } ; if ($?) { java Demo }
Enter the length of the box: 23
Enter the width of the box: 45
Enter the height of the box: 67
Volume of the box: 69345.0
PS C:\Users\KIIT\Pictures\Screenshots\Java Development>
```

Code

Code

Code

Code

Code

Code

Code

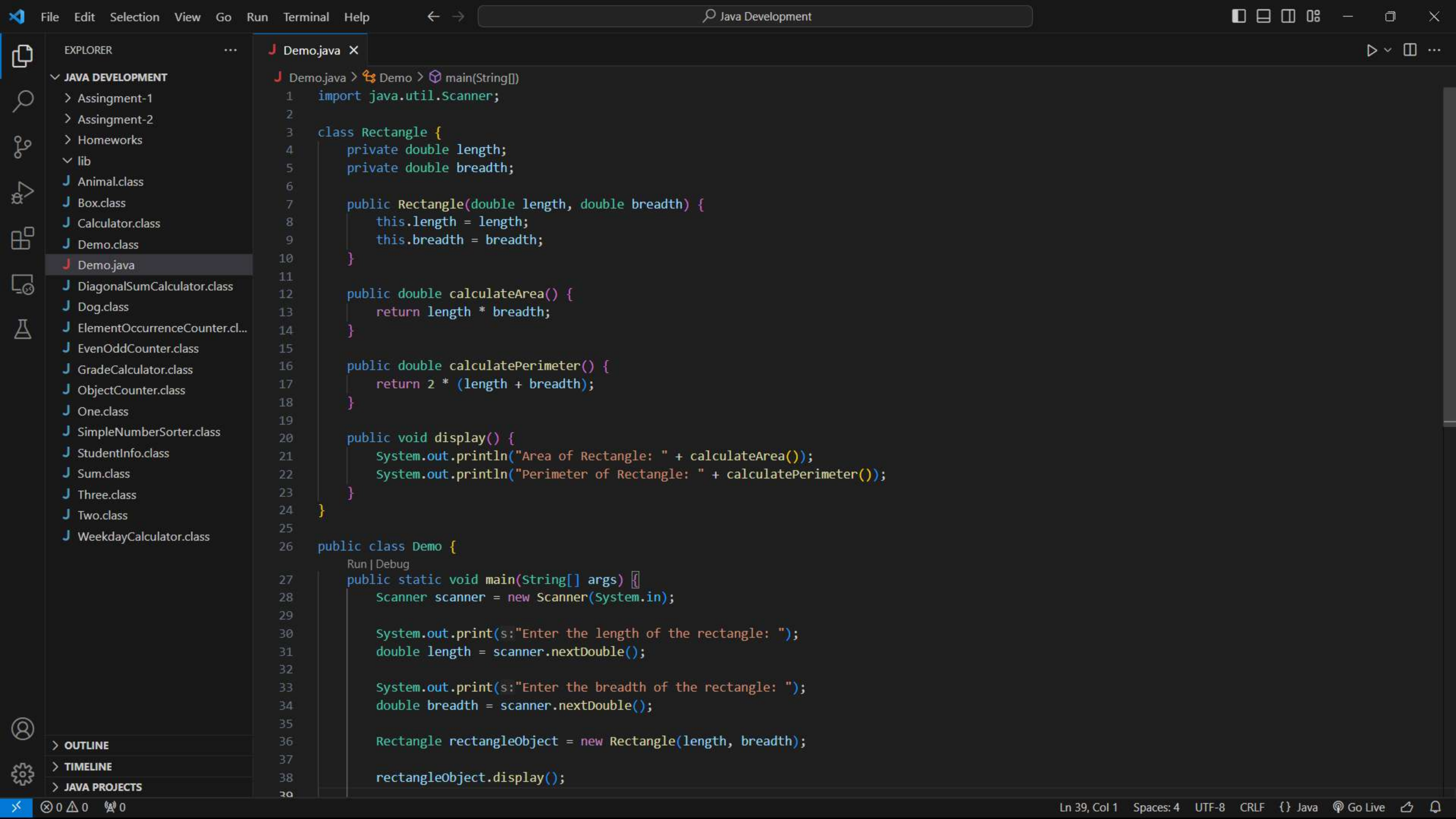
Code

Code

Code

Code



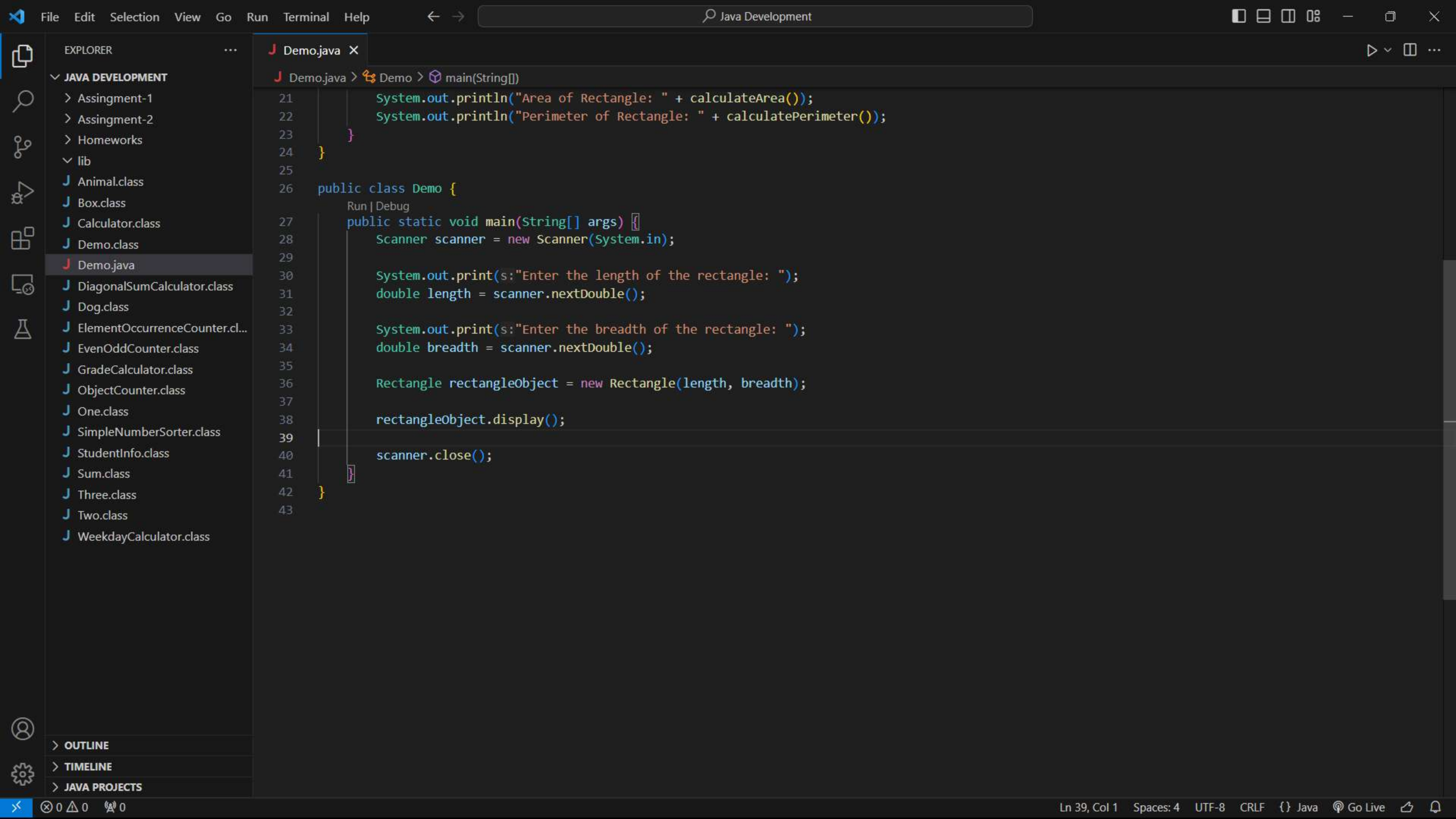


```
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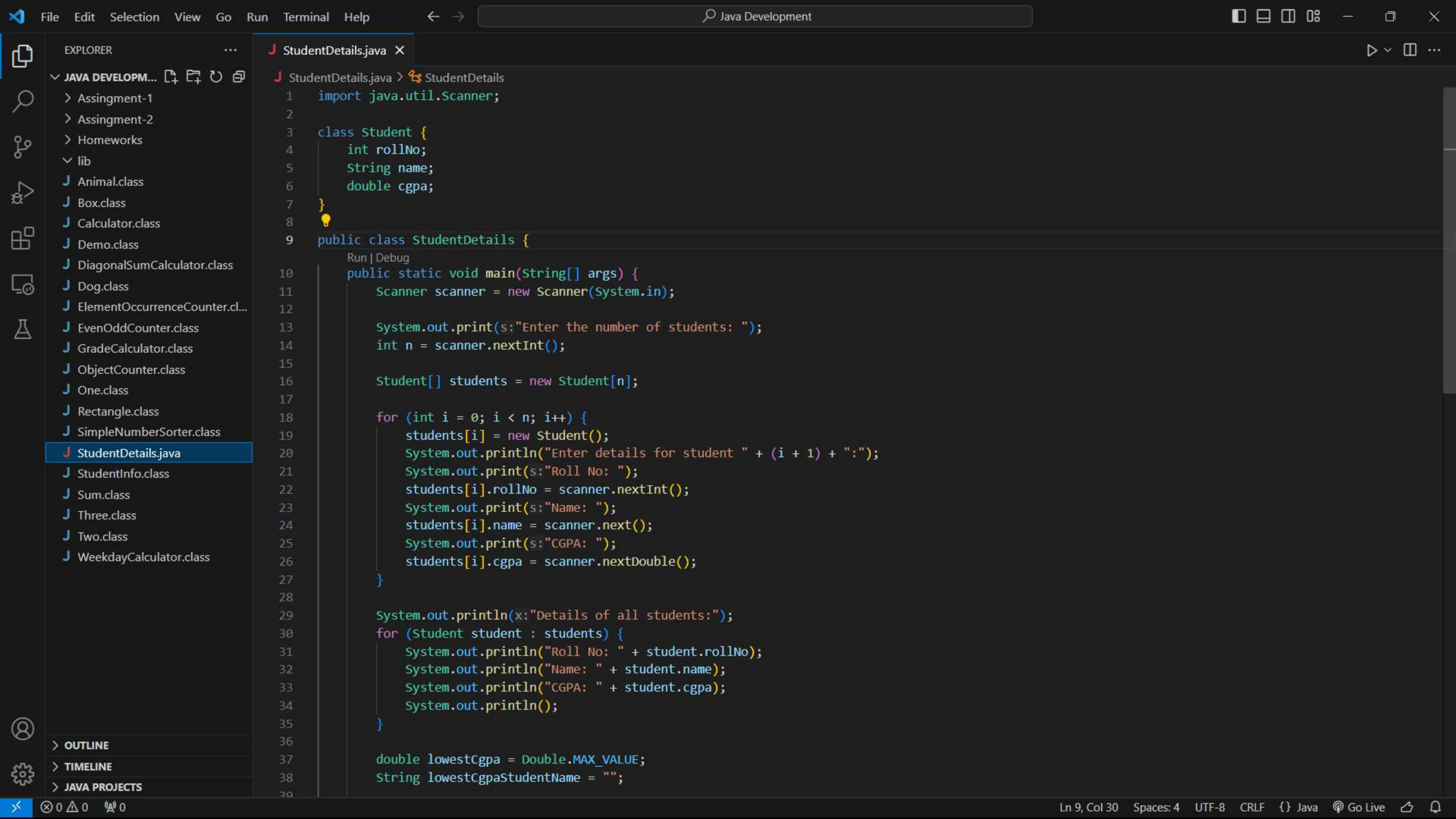
J Demo.java X
  J Demo.java > Demo > main(String[])
    1 import java.util.Scanner;
    2
    3 class Rectangle {
    4     private double length;
    5     private double breadth;
    6
    7     public Rectangle(double length, double breadth) {
    8         this.length = length;
    9         this.breadth = breadth;
    10    }
    11
    12    public double calculateArea() {
    13        return length * breadth;
    14    }
    15
    16    public double calculatePerimeter() {
    17        return 2 * (length + breadth);
    18    }
    19
    20    public void display() {
    21        System.out.println("Area of Rectangle: " + calculateArea());
    22        System.out.println("Perimeter of Rectangle: " + calculatePerimeter());
    23    }
    24 }
    25
    26 public class Demo {
    27     Run | Debug
    28     public static void main(String[] args) {
    29         Scanner scanner = new Scanner(System.in);
    30
    31         System.out.print(s:"Enter the length of the rectangle: ");
    32         double length = scanner.nextDouble();
    33
    34         System.out.print(s:"Enter the breadth of the rectangle: ");
    35         double breadth = scanner.nextDouble();
    36
    37         Rectangle rectangleObject = new Rectangle(length, breadth);
    38
    39         rectangleObject.display();
    40     }
  }
```

Ln 39, Col 1 Spaces: 4 UTF-8 CRLF {} Java Go Live









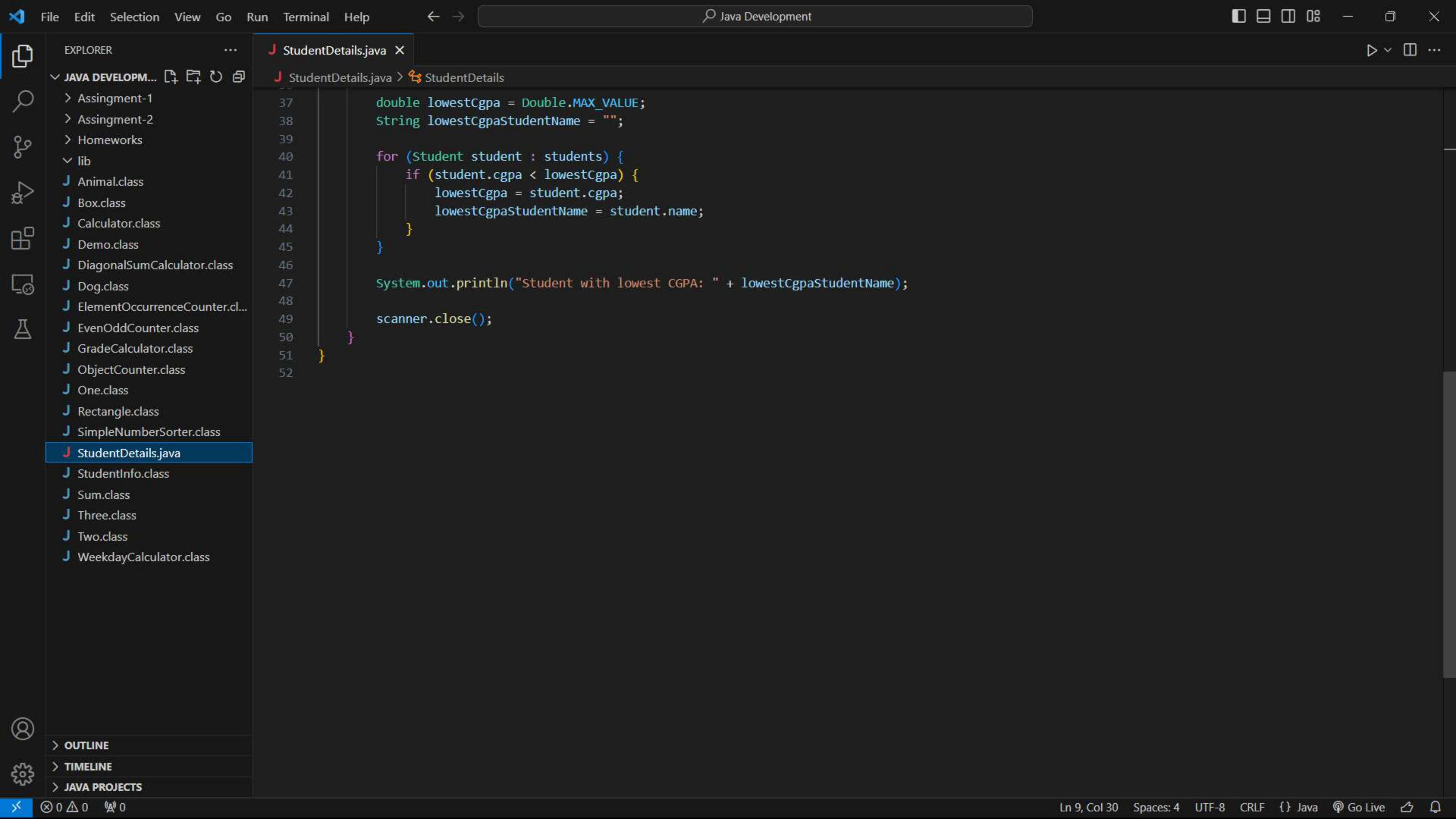
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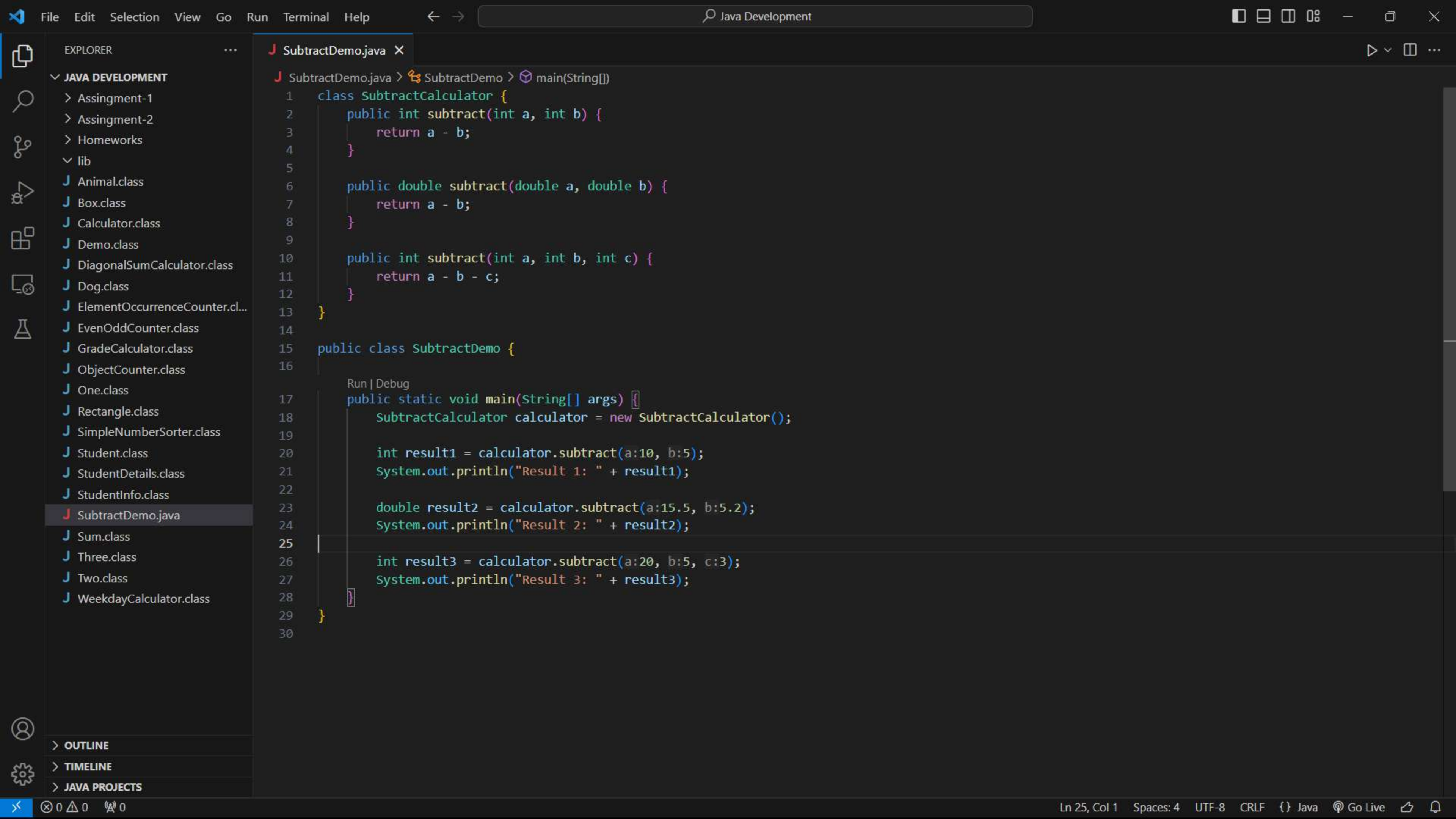
StudentDetails.java
  StudentDetails
    1 import java.util.Scanner;
    2
    3 class Student {
    4     int rollNo;
    5     String name;
    6     double cgpa;
    7 }
    8
    9 public class StudentDetails {
    10     public static void main(String[] args) {
    11         Scanner scanner = new Scanner(System.in);
    12
    13         System.out.print(s:"Enter the number of students: ");
    14         int n = scanner.nextInt();
    15
    16         Student[] students = new Student[n];
    17
    18         for (int i = 0; i < n; i++) {
    19             students[i] = new Student();
    20             System.out.println("Enter details for student " + (i + 1) + ":");
    21             System.out.print(s:"Roll No: ");
    22             students[i].rollNo = scanner.nextInt();
    23             System.out.print(s:"Name: ");
    24             students[i].name = scanner.next();
    25             System.out.print(s:"CGPA: ");
    26             students[i].cgpa = scanner.nextDouble();
    27         }
    28
    29         System.out.println(x:"Details of all students:");
    30         for (Student student : students) {
    31             System.out.println("Roll No: " + student.rollNo);
    32             System.out.println("Name: " + student.name);
    33             System.out.println("CGPA: " + student.cgpa);
    34             System.out.println();
    35         }
    36
    37         double lowestCgpa = Double.MAX_VALUE;
    38         String lowestCgpaStudentName = "";
    39     }
    40 }
```









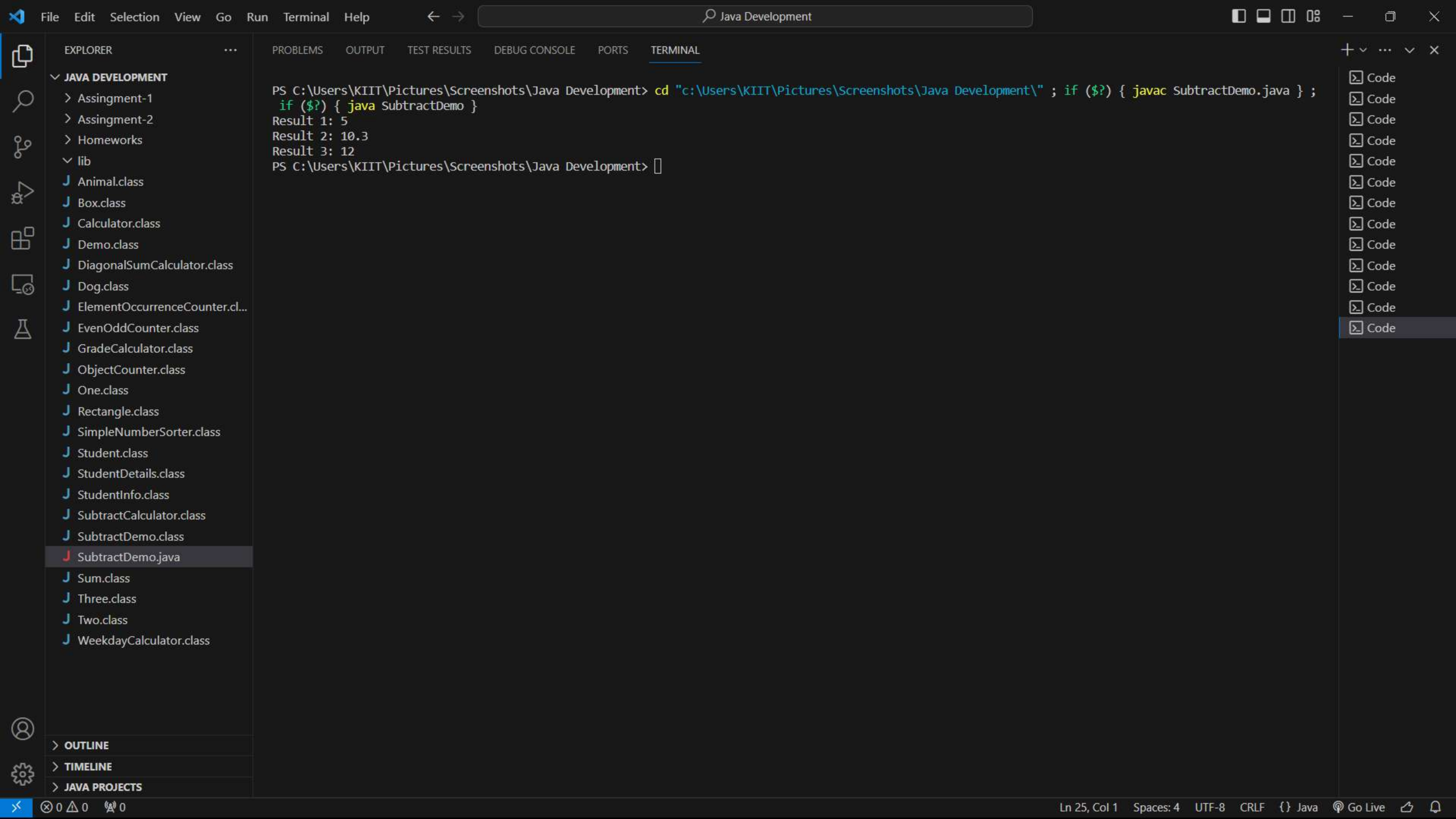


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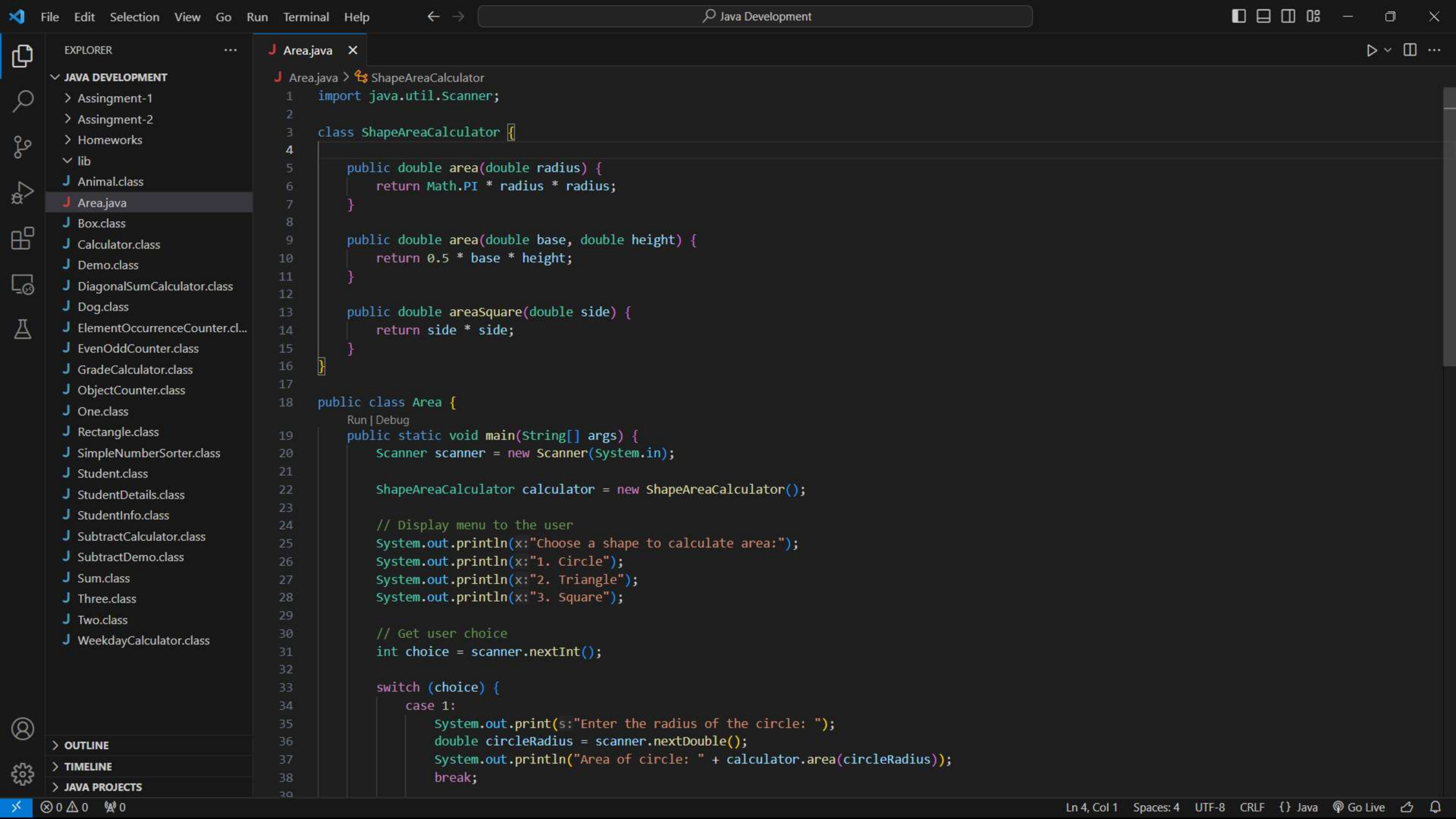
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SubtractDemo.java X
  SubtractDemo.java > SubtractDemo > main(String[])
    1 class SubtractCalculator {
    2     public int subtract(int a, int b) {
    3         return a - b;
    4     }
    5
    6     public double subtract(double a, double b) {
    7         return a - b;
    8     }
    9
    10    public int subtract(int a, int b, int c) {
    11        return a - b - c;
    12    }
    13 }
    14
    15 public class SubtractDemo {
    16
    17     Run | Debug
    18     public static void main(String[] args) {
    19         SubtractCalculator calculator = new SubtractCalculator();
    20
    21         int result1 = calculator.subtract(a:10, b:5);
    22         System.out.println("Result 1: " + result1);
    23
    24         double result2 = calculator.subtract(a:15.5, b:5.2);
    25         System.out.println("Result 2: " + result2);
    26
    27         int result3 = calculator.subtract(a:20, b:5, c:3);
    28         System.out.println("Result 3: " + result3);
    29     }
    30 }
```







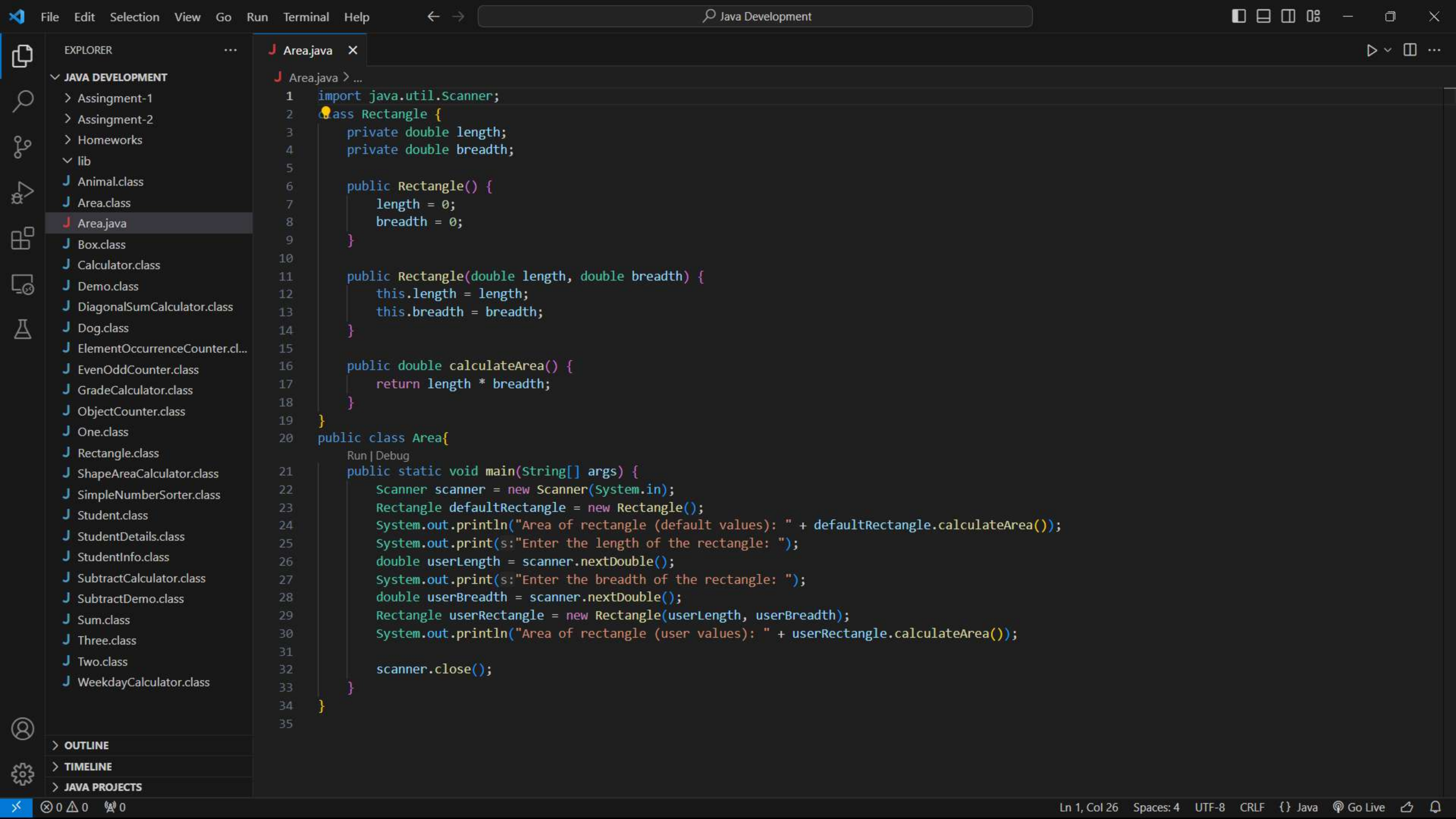
```
File Edit Selection View Go Run Terminal Help
Area.java
1 import java.util.Scanner;
2
3 class ShapeAreaCalculator {
4
5     public double area(double radius) {
6         return Math.PI * radius * radius;
7     }
8
9     public double area(double base, double height) {
10        return 0.5 * base * height;
11    }
12
13    public double areaSquare(double side) {
14        return side * side;
15    }
16 }
17
18 public class Area {
19     Run | Debug
20     public static void main(String[] args) {
21         Scanner scanner = new Scanner(System.in);
22
23         ShapeAreaCalculator calculator = new ShapeAreaCalculator();
24
25         // Display menu to the user
26         System.out.println(x:"Choose a shape to calculate area:");
27         System.out.println(x:"1. Circle");
28         System.out.println(x:"2. Triangle");
29         System.out.println(x:"3. Square");
30
31         // Get user choice
32         int choice = scanner.nextInt();
33
34         switch (choice) {
35             case 1:
36                 System.out.print(s:"Enter the radius of the circle: ");
37                 double circleRadius = scanner.nextDouble();
38                 System.out.println("Area of circle: " + calculator.area(circleRadius));
39                 break;
```











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Area.java
1 import java.util.Scanner;
2 class Rectangle {
3     private double length;
4     private double breadth;
5
6     public Rectangle() {
7         length = 0;
8         breadth = 0;
9     }
10
11    public Rectangle(double length, double breadth) {
12        this.length = length;
13        this.breadth = breadth;
14    }
15
16    public double calculateArea() {
17        return length * breadth;
18    }
19 }
20 public class Area{
21     Run | Debug
22     public static void main(String[] args) {
23         Scanner scanner = new Scanner(System.in);
24         Rectangle defaultRectangle = new Rectangle();
25         System.out.println("Area of rectangle (default values): " + defaultRectangle.calculateArea());
26         System.out.print(s:"Enter the length of the rectangle: ");
27         double userLength = scanner.nextDouble();
28         System.out.print(s:"Enter the breadth of the rectangle: ");
29         double userBreadth = scanner.nextDouble();
30         Rectangle userRectangle = new Rectangle(userLength, userBreadth);
31         System.out.println("Area of rectangle (user values): " + userRectangle.calculateArea());
32
33         scanner.close();
34     }
35 }
```



