

## Session-4 Lab

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### ASSIGNMENT 09

```
package com.san.jay;

public class Rectangle {

    // Attributes

    private int length;

    private int width;

    // Constructor

    public Rectangle(int length, int width) {

        this.length = length;

        this.width = width;

    }

    // Method to calculate area

    public int calculateArea() {

        return length * width;

    }

    public static void main(String[] args) {

        // Create two Rectangle objects with random values

        Rectangle rect1 = new Rectangle(10, 5);

        Rectangle rect2 = new Rectangle(7, 8);

        // Calculate areas

        int area1 = rect1.calculateArea();

        int area2 = rect2.calculateArea();

        // Print areas

        System.out.println("Area of Rectangle1: " + area1);

        System.out.println("Area of Rectangle2: " + area2);

        // Compare using relational operators

        if (area1 > area2) {

            System.out.println("Rectangle1 > Rectangle2");

        } else if (area1 < area2) {
```

```

        System.out.println("Rectangle1 < Rectangle2");

    } else {

        System.out.println("They are equal");

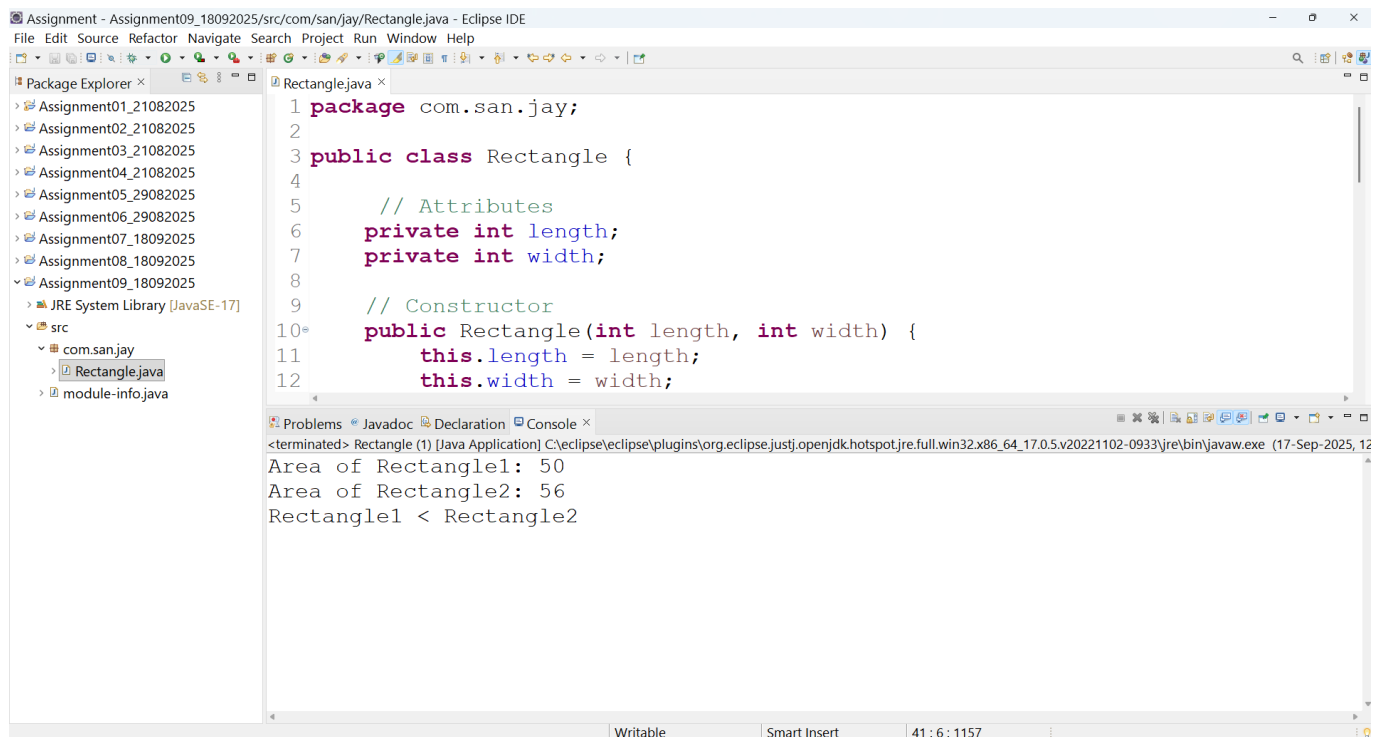
    }

}

}

```

## ASSIGNMENT 09 – OUTPUT



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays a project named 'Assignment09\_18092025' with a package 'com.san.jay' containing 'Rectangle.java'. The main editor window shows the code for 'Rectangle.java'.

```

1 package com.san.jay;
2
3 public class Rectangle {
4
5     // Attributes
6     private int length;
7     private int width;
8
9     // Constructor
10    public Rectangle(int length, int width) {
11        this.length = length;
12        this.width = width;

```

The Console window at the bottom shows the output of the program:

```

<terminated> Rectangle (1) [Java Application] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.5.v20221102-0933\jre\bin\javaw.exe (17-Sep-2025, 12
Area of Rectangle1: 50
Area of Rectangle2: 56
Rectangle1 < Rectangle2

```