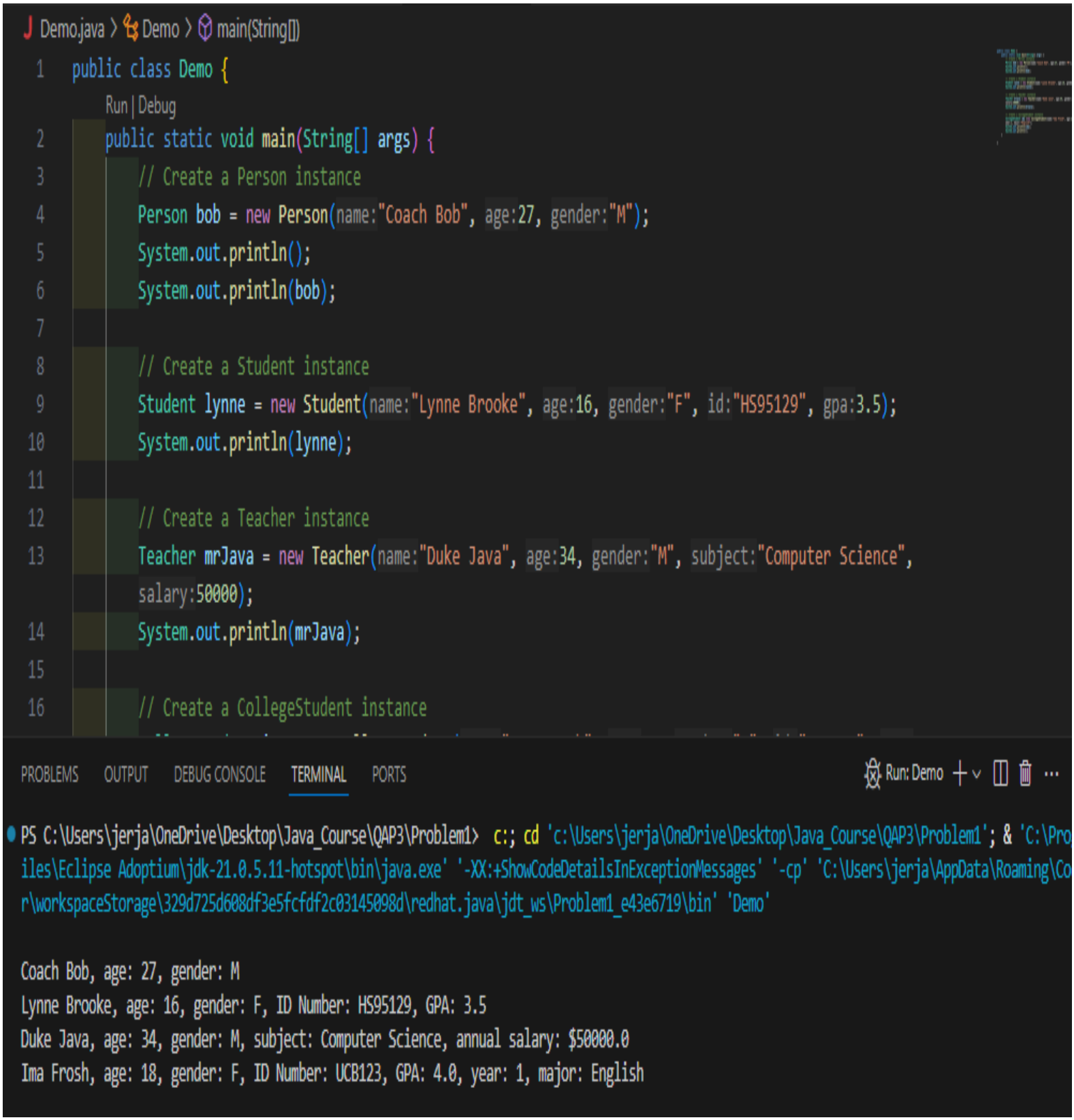
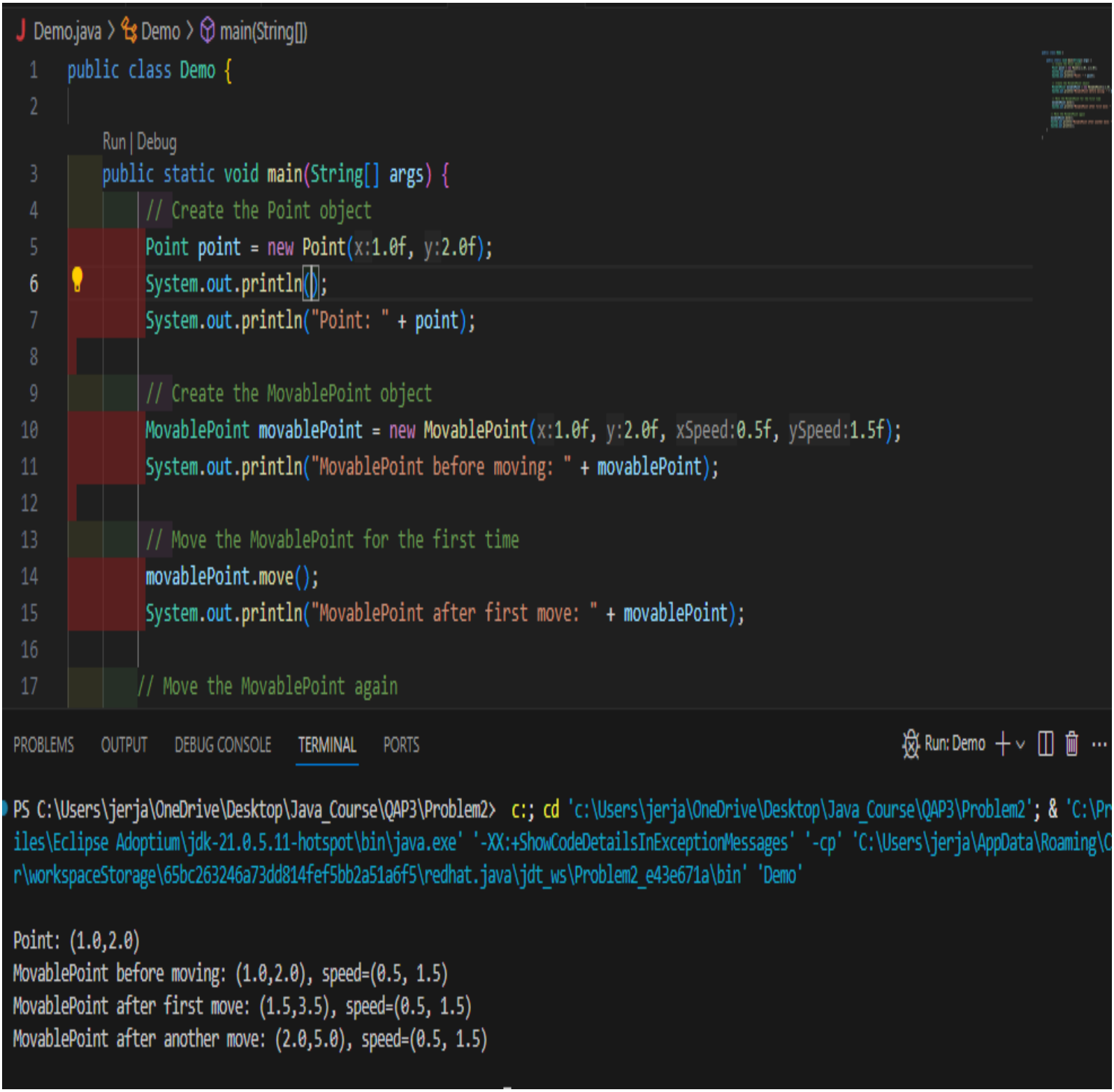


Screenshot: Problem#1



Screenshot: Problem#2

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

```java
public class Demo {
    Run | Debug
    public static void main(String[] args) {
        // Create objects from different shape classes
        Shape[] shapes = new Shape[4];
        shapes[0] = new Circle(radius:4);
        shapes[1] = new Ellipse(a:9, b:6);
        shapes[2] = new Triangle(side1:5, side2:6, side3:7);
        shapes[3] = new Equilateral(side:8);

        System.out.println(x:"================================================================================");
        System.out.println(x:"                          SHAPE DETAILS REPORT                ");
        System.out.println(x:"================================================================================");
        System.out.printf(format:"%-25s %-12s %-12s %-15s%n", ...args:"Shape Type", "Area", "Perimeter",
        "Additional Info");
        System.out.println(x:"--------------------------------------------------------------------------------");
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
m3_e43e671b\bin' 'Demo'
================================================================
                    SHAPE DETAILS REPORT
================================================================
Shape Type              Area        Perimeter    Additional Info
----------------------------------------------------------------
Circle                  50.27       25.13        Radius: 4.00
----------------------------------------------------------------
Ellipse                 169.65      47.60        Major Axis: 9.00, Minor Axis: 6.00
----------------------------------------------------------------
Triangle                14.70       18.00        Sides: (5.00, 6.00, 7.00)
----------------------------------------------------------------
Equilateral Triangle    27.71       24.00        Sides: (8.00, 8.00, 8.00)
----------------------------------------------------------------
```

Screenshot: Problem#3

```
================================================================================
                          SHAPE DETAILS BEFORE SCALING
================================================================================
Shape Type                Area        Perimeter   Additional Info
--------------------------------------------------------------------------------
Circle                    50.27       25.13       Radius: 4.00
--------------------------------------------------------------------------------
Ellipse                   169.65      47.60       Major Axis: 9.00, Minor Axis: 6.00
--------------------------------------------------------------------------------
Triangle                  14.70       18.00       Sides: (5.00, 6.00, 7.00)
--------------------------------------------------------------------------------
Equilateral Triangle      27.71       24.00       Sides: (8.00, 8.00, 8.00)
--------------------------------------------------------------------------------

Applying scale factor: 2.0

================================================================================
                          SHAPE DETAILS AFTER SCALING
================================================================================
Shape Type                Area        Perimeter   Additional Info
--------------------------------------------------------------------------------
Circle                    201.06      50.27       Radius: 8.00
--------------------------------------------------------------------------------
Ellipse                   678.58      95.19       Major Axis: 18.00, Minor Axis: 12.00
--------------------------------------------------------------------------------
Triangle                  58.79       36.00       Sides: (10.00, 12.00, 14.00)
--------------------------------------------------------------------------------
Equilateral Triangle      110.85      48.00       Sides: (16.00, 16.00, 16.00)
--------------------------------------------------------------------------------
```

Screenshot: Problem#4

Assessment Feedback

1.Q) How many hours did it take you to complete this assessment?

1.A) It took me about 8 hours to complete this assignment

2.Q) What online resources you have used?

2.A) I used Lecture Notes & google(stack overflow,…)

3.Q) Did you need to ask any of your friends in solving the problems?

3.A) I did not ask of my classmates for help during this assignment

4.Q) Did you need to ask questions to any of your instructors?

4.A) No, I didn't need to ask any questions to my instructors during this assignment

5.Q) Rate (subjectively) the difficulty of each question from your own perspective, and whether you feel confident that you can solve a similar but different problem requiring some of the same techniques in the future

5.A)

Problem 1: Difficulty - 1/10. This problem was fairly easy. I did not run into anything to complicated.

Problem 2: Difficulty - 2/10. I ran into a few problems having the code come out complete, otherwise well done.

Problem 3: Difficulty - 2/10. This was relatively easy besides a few parts.

Problem 4: Difficulty - 2/10. Had a few problems with the scaling, otherwise good.