

Java QAP 3

Problem 1:

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PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> javac Person.java Student.java Teacher.java CollegeStudent.java Demo.java
Coach Bob, age: 27, gender: M
Lynne Brooke, age: 16, gender: F, Id: HS95129, GPA: 3.5
Duke Java, age: 34, gender: M, Subject: Computer Science, Salary: $50000.0
Tina Frosh, age: 18, gender: F, Id: UCB123, GPA: 4.0, Year: 1, Major: English
```

Problem 2:

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PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> javac Point.java MovablePoint.java Demo2.java
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> java Demo2
(10.0, 15.0), speed=(2.0, 3.0)
(12.0, 18.0), speed=(2.0, 3.0)
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> █
```

Problem 3:

```
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> javac Shape.java Circle.java Ellipse.java Triangle.java EquilateralTriangle.java Demo3.java
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> java demo3
Error: Could not find or load main class demo3
Caused by: java.lang.NoClassDefFoundError: demo3 (wrong name: Demo3)
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> java Demo3
Shape: Circle1, Area: 78.53981633974483, Perimeter: 31.41592653589793
Shape: Ellipse1, Area: 37.69911184307752, Perimeter: 22.103491790916742
Shape: Triangle1, Area: 6.0, Perimeter: 12.0
Shape: EquilateralTriangle1, Area: 15.588457268119896, Perimeter: 18.0
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> █
```

Problem 4:

```
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> javac Shape.java Circle.java Ellipse.java Triangle.java EquilateralTriangle.java Scalable.java Demo3.java
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> java Demo3
Before scaling:
Shape: Circle1, Area: 78.53981633974483, Perimeter: 31.41592653589793
Shape: Ellipse1, Area: 37.69911184307752, Perimeter: 22.103491790916742
Shape: Triangle1, Area: 6.0, Perimeter: 12.0
Shape: EquilateralTriangle1, Area: 15.588457268119896, Perimeter: 18.0

After scaling:
Shape: Circle1, Area: 314.1592653589793, Perimeter: 62.83185307179586
Shape: Ellipse1, Area: 150.79644737231007, Perimeter: 44.206983581833484
Shape: Triangle1, Area: 24.0, Perimeter: 24.0
Shape: EquilateralTriangle1, Area: 62.353829072479584, Perimeter: 36.0
PS C:\Users\logan\Documents\semester 3 SD\Java QAP 3> █
```

QUESTIONS

1. It took me roughly three hours with most of the time coming from getting problem 4 to work i kept getting a lot of errors trying to compile them
2. I used a bit of stack overflow and mostly rewatching bits of classes
3. I didn't ask anyone any questions
4. I didn't ask any instructors
5. Out of 5 id give in order of the questions: 2/5 1/5 3/5 4/5