

Software Developer Course Assessment

Quantitative Assessment Practice

Course Name: Advanced Programming (Java)

Submission Date: 16th March 2025

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

Answer: This assessment took me approximately 8 hours to complete.

2. What online resources you have used? (My lectures, YouTube, Stack overflow etc.)

Answer: I used your lectures and your powerpoints/notes.

3. Did you need to ask any of your friends in solving the problems. (If yes, please mention name of the friend. They must be amongst your class fellows.)

Answer: I asked Noah Devine for clarification on some wordings in the document.

4. Did you need to ask questions to any of your instructors? If so, how many questions did you ask (or how many help sessions did you require)?

Answer: I did not ask any questions to my instructors for this assignment.

5. 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 now that you've completed this one.

Answer: I would rate this assessment a 7/10. The math questions always get me! I could solve similar ones after I complete the weekly practice!

Code Output:

Problem 1:

```
laurawiseman@Lauras-MacBook-Air Java-qap3 % /usr/bin/env /Library/Java/JavaVirtualMac
eview -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/laurawiseman/Library/Applicat
d0dacd90976bffe0404f/redhat.java/jdt_ws/Java-qap3_372c33ac/bin Problem1.Demo
Name: Coach Bob, Age: 57, Gender: M
Name: Laura, Age: 25, Gender: F
Name: Ms. Smith, Age: 45, Gender: F, Subject: Computer Science, Salary: $55000.0
Name: Caley, Age: 27, Gender: F, Major: English, Year: 2
laurawiseman@Lauras-MacBook-Air Java-qap3 %
```

Problem 2:

```
PROBLEMS OUTPUT DEBUG CONSOLE PORTS TERMINAL
laurawiseman@MacBookAir Java-qap3 % /usr/bin/env /Library/Java/JavaVi
X:+ShowCodeDetailsInExceptionMessages -cp /Users/laurawiseman/Library/
976bffe0404f/redhat.java/jdt_ws/Java-qap3_372c33ac/bin Problem2.Demo
Before move: (1.0, 2.0)(0.5,1.5)
After move: (1.5, 3.5)(0.5,1.5)
laurawiseman@MacBookAir Java-qap3 %
```

Problem 3:

```
laurawiseman@Lauras-MacBook-Air Java-qap3 % /usr/bin/env /Library/Java/JavaVirtualMachines/jdk-
eview -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/laurawiseman/Library/Application\ Suppo
d0dacd90976bffe0404f/redhat.java/jdt_ws/Java-qap3_372c33ac/bin Problem3.Demo3
Ellipse - Perimeter: 10.345204509497567, Area: 47.12388980384689
Circle - Perimeter: 10.283185307179586, Area: 50.26548245743669
Triangle - Perimeter: 12.0, Area: 6.0
Equilateral - Perimeter: 12.0, Area: 6.928203230275509
laurawiseman@Lauras-MacBook-Air Java-qap3 %
```

Problem 4:

```
laurawiseman@Lauras-MacBook-Air Java-qap3 % /usr/bin/env /Library/Java/JavaVirtualMachines/jdk
evuew -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/laurawiseman/Library/Application\ Supp
d0dacd90976bffe0404f/redhat.java/jdt_ws/Java-qap3_372c33ac/bin Problem4.Demo4
Before Scaling:
Circle, - Perimeter: 31.42, Area: 78.54, Radius: 5.00
Ellipse, - Perimeter: 32.04, Area: 75.40, Major Axis: 6.00, Minor Axis: 4.00
Triangle, - Perimeter: 16.00, Area: 11.31, Sides: 6.00, 4.00, 6.00
Equilateral Triangle, - Perimeter: 14.33, Area: 9.76, Sides: 5.00, 4.33, 5.00, Side: 5.00
After Scaling:
Circle, - Perimeter: 62.83, Area: 314.16, Radius: 10.00
Ellipse, - Perimeter: 64.08, Area: 301.59, Major Axis: 12.00, Minor Axis: 8.00
Triangle, - Perimeter: 32.00, Area: 45.25, Sides: 12.00, 8.00, 12.00
Equilateral Triangle, - Perimeter: 14.33, Area: 9.76, Sides: 5.00, 4.33, 5.00, Side: 10.00
laurawiseman@Lauras-MacBook-Air Java-qap3 %
```