

//Bradley Ayers

//QAP 1

//September 24, 2024

1. How many hours did it take you to complete this assessment? (Please keep try to keep track of how many hours you have spent working on each individual part of this assessment as best you can - an estimation is fine; we just want a rough idea.)

I estimate that it took me approximately 4 hours to complete this task. I approached it early enough that I didn't have to rush. The third question was quick because the first two questions prepared me well. Of that 4 hours, I would imagine I spent about 30 making mistakes (that I learned from) and some time writing this document.

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

The most valuable tools here were definitely class-notes and previous examples. The examples of how to build and test a class we did as assignments were very helpful. I did google a couple of small things and used ChatGPT for some trouble shooting and simple questions.

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.)

I asked Adam Stevenson a couple of questions since we were in the same workspace, mostly just to make sure my solution was on the right track.

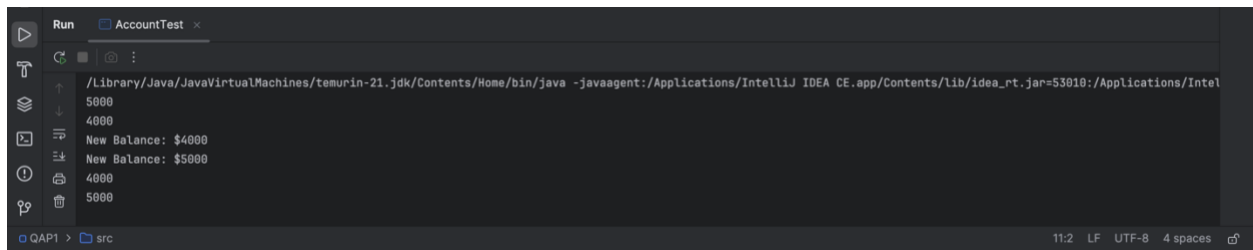
4. Did you need to ask questions to any of your instructors? If so, how many questions did you ask (or how many help sessions did you require)?

I didn't ask any instructor or TA for help.

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.

I think these questions were very fair given that Java is relatively recent. I am confident I could now do a similar assignment in less than half the time I spent on this one.

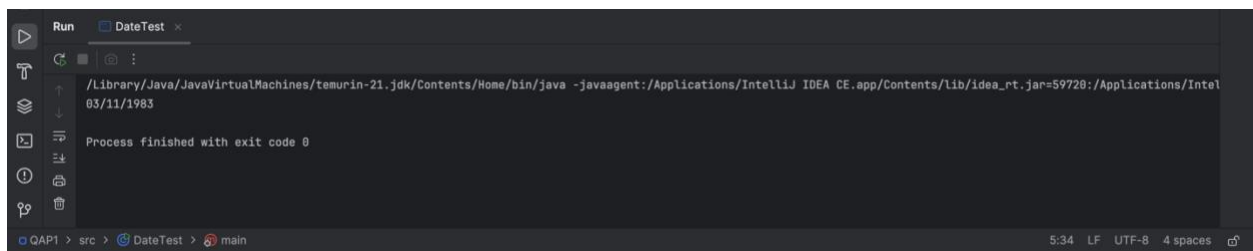
Q1 Output:



The screenshot shows the IntelliJ Run window for a class named `AccountTest`. The console output displays the following sequence of values: `5000`, `4000`, `New Balance: $4000`, `New Balance: $5000`, `4000`, and `5000`. The status bar at the bottom indicates the file is `src` and the encoding is `UTF-8`.

```
Run AccountTest x
/Library/Java/JavaVirtualMachines/temurin-21.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=53010:/Applications/IntelliJ
5000
4000
New Balance: $4000
New Balance: $5000
4000
5000
QAP1 > src 11:2 LF UTF-8 4 spaces
```

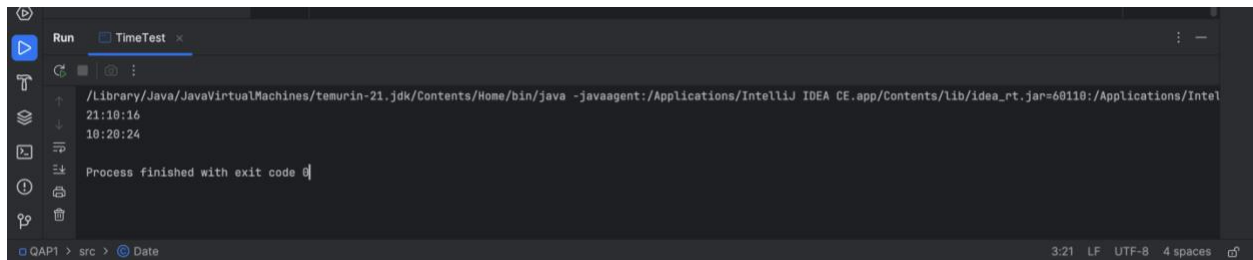
Q2 Output:



The screenshot shows the IntelliJ Run window for a class named `DateTest`. The console output displays the date `03/11/1903` followed by the message `Process finished with exit code 0`. The status bar at the bottom indicates the file is `src > DateTest > main` and the encoding is `UTF-8`.

```
Run DateTest x
/Library/Java/JavaVirtualMachines/temurin-21.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=59720:/Applications/IntelliJ
03/11/1903
Process finished with exit code 0
QAP1 > src > DateTest > main 5:34 LF UTF-8 4 spaces
```

Q3 Output:



The screenshot shows the IntelliJ Run window for a class named `TimeTest`. The console output displays the times `21:10:16` and `10:20:24` followed by the message `Process finished with exit code 0`. The status bar at the bottom indicates the file is `src > Date` and the encoding is `UTF-8`.

```
Run TimeTest x
/Library/Java/JavaVirtualMachines/temurin-21.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=60110:/Applications/IntelliJ
21:10:16
10:20:24
Process finished with exit code 0
QAP1 > src > Date 3:21 LF UTF-8 4 spaces
```