## Advanced Programming (Java) QAP1

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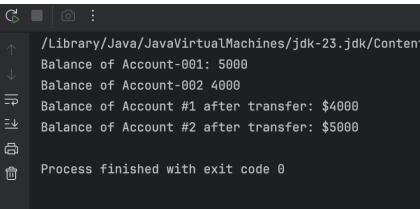
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# Questionnaire

- 1. This assignment took me approximately 6 hours total, if I were to guess. I needed to practice OOP in Java, and had to familiarize myself with IntelliJ
- 2. To complete this assignment, I utilized W3Schools, Ainee's lecture notes, and StackOverflow
- 3. N/A
- 4. N/A
- 5. I thought the first question was the most difficult, I had to think a little extra for the transfer method. The other two questions seemed to come somewhat naturally after doing practice questions.

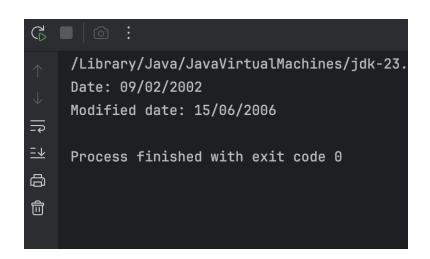
### Problem 1 Screenshot

```
© Date.java
Account.java
                               © TestDate.java
                                                 © Time.java
                                                                TestTime.java
                                                                                  TestAccount.java
      Account acc1 = new Account( id: "Account-001", name: "Jalen Green", balance: 5000);
              Account acc2 = new Account(id: "Account-002", name: "Alperen Sengun", balance: 4000);
              //Displaying the initial balance of the two accounts
              System.out.println("Balance of Account-001: " + acc1.getBalance());
              System.out.println("Balance of Account-002 " + acc2.getBalance());
              //Complete a transfer action by sending $1000 to the second account
              acc1.transferTo(acc2, amount: 1000);
              //Displaying the new balances, post-transfer
              System.out.println("Balance of Account #1 after transfer: $" + acc1.getBalance());
              System.out.println("Balance of Account #2 after transfer: $" + acc2.getBalance());
      TestAccount ×
    /Library/Java/JavaVirtualMachines/jdk-23.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDE
    Balance of Account-001: 5000
    Balance of Account-002 4000
    Balance of Account #1 after transfer: $4000
    Balance of Account #2 after transfer: $5000
Process finished with exit code 0
```



### Problem 2 Screenshot

```
Account.java
                © Date.java
                                                             @ TestTii
                              © Time.java
      public class TestDate { ♣ Alec B
          Date date = new Date( day: 9, month: 2, year: 2002);
             //Displaying our date object
             System.out.println("Date: " + date.toString());
             //Change the date using our setDate method
             date.setDate( day: 15,  month: 6,  year: 2006);
             //Display the modified date
             System.out.println("Modified date: " + date.toString());
Run
     TestDate ×
G ■ © :
    /Library/Java/JavaVirtualMachines/jdk-23.jdk/Contents/Home/bin/java -jav
    Date: 09/02/2002
    Modified date: 15/06/2006
    Process finished with exit code 0
⑪
```



### Problem 3 Screenshot

```
Account.java
                © Date.java
                              TestDate.java
                                                © Time.java
                                                              TestTime.java
      Time t1 = new Time( hour: 21, minute: 10, second: 15);
              Time t2 = new Time( hour: 10, minute: 20, second: 24);
             System.out.println("Time t1: " + t1.toString());
              System.out.println("Time t2: " + t2.toString());
              //Utilizing our modification methods
             t1.nextSecond();
              t2.previousSecond();
              //Displaying our results of our modification methods
              System.out.println("1 second after t1's time: " + t1.toString());
             System.out.println("1 second before t2's time: " + t2.toString());
          }
Run
      TestTime ×
G . :
    /Library/Java/JavaVirtualMachines/jdk-23.jdk/Contents/Home/bin/java -javaagent:/A
    Time t1: 21:10:15
    Time t2: 10:20:24
    1 second after t1's time: 21:10:16
    1 second before t2's time: 10:20:23
Process finished with exit code 0
```

