

CS 102: Quiz #1, September 9, 2009

SOLUTION

1. Write method called `maxOfTwo` that accepts two integer parameters and returns the larger of the two.

Solution: Using if-else statements, you can write it as

```
public static int maxOfTwo(int a, int b){
    if (a>b)
        return a;
    else
        return b;
}
```

Or you may use the java ternary operator ?:

```
public static int maxOfTwo(int a, int b){
    return (a>b) ? a : b;
}
```

2. For this problem, you should refer to the `Account` class listed on the following page (this class is exactly the same as the one from Lewis & Loftus which we discussed in class).

What is the output (to the screen)?

```
public class AccountDriver{
    public static void main(String[] args){
        Account acct1 = new Account("Juan Suarez", 56309, 86);
        Account acct2 = new Account("Henrietta Jones", 70809, 503.25);
        System.out.println("Account 1 balance: " + acct1.deposit(14));
        System.out.println("Account 2 balance: " +
            acct2.withdraw(60,1.50));
        acct1.addInterest();
        acct2.deposit(100);
        System.out.println(acct1);
        System.out.println(acct2);
    }
}
```

Solution:

```
Account 1 balance: 100.0
Account 2 balance: 441.75
56309   Juan Suarez     $103.50
70809   Henrietta Jones $541.75
```

```
import java.util.Locale;
import java.text.NumberFormat;
public class Account {
    private final double RATE = 0.035;
    private long acctNumber;
    private double balance;
    private String name;
    public Account (String owner, long account, double initial){
        name = owner;
        acctNumber = account;
        balance = initial;
    }
    public double deposit (double amount){
        balance = balance + amount;
        return balance;
    }
    public double withdraw (double amount, double fee){
        balance = balance - amount - fee;
        return balance;
    }
    public double addInterest (){
        balance += (balance * RATE);
        return balance;
    }
    public double getBalance (){
        return balance;
    }
    public String toString (){
        NumberFormat fmt = NumberFormat.getCurrencyInstance(Locale.US);
        return (acctNumber + "\t" + name + "\t" + fmt.format(balance));
    }
}
```