

CS101: Quiz #7, March 25, 2009

Name:

1. Put the output to the screen in the box below.

```
public class Question{
    private static final int MAX = 5;
    public static void main (String[] args){
        System.out.println(MAX);
        System.out.println(ff(3));
        System.out.println(ff(7));
    }
    private static int ff (int y){
        if (y>MAX)
            return y*y;
        if (y==MAX)
            return 0;
        return 9;
    }
}
```

Solution:

Output: 5 9 49

PROBLEM 2 IS ON THE BACK

2. Using the Account class (see the attached page), what is the output of the following driver class? (Note the Account class is *exactly* the same as the one we discussed in class.)

```
public class AccountDriver{
    public static void main(String[] args){
        Account acct1 = new Account("Juan Suarez", 56309, 100);
        Account acct2 = new Account("Henrietta Jones", 70809, 503.25);
        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:

Output:

```
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; // interest rate of 3.5%
    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));
    }
}

```