

### Question 1:

Source:

```
lab3_q1.java •
1 // Ben Diegel, JAVA I, Lab 3 Question 1
2 import java.util.Scanner;
3
4 public class lab3_q1{
5     public static void main(String[] args){
6
7         final double TAX = .0675, // CONSTANTS for tax and tip percentages (decimal form)
8             TIP = .2;
9
10        double mealCharge, // charge for only the meal
11            taxAmount, // amount of tax on the meal
12            tipAmount, // amount of tip for meal
13            totalBill; // total amount of everything
14
15        Scanner keyboard = new Scanner(System.in); // new keyboard scanner
16
17        System.out.print("\nPlease enter the price of your meal. \n>>"); // gets the meal charge with nice formatting
18        mealCharge = keyboard.nextDouble();
19
20        taxAmount = mealCharge * TAX; // calcs the tax amount for the meal
21        tipAmount = mealCharge * TIP; // calcs the tip amount
22        totalBill = mealCharge + taxAmount + tipAmount; // adds everything together
23
24        System.out.println("\nMeal Charge:\t$" + mealCharge + // formats the end result like a receipt.
25            "\nTax:\t\t$" + taxAmount + // (how do you set percision??)
26            "\nTip:\t\t$" + tipAmount +
27            "\n\nTotal:\t\t$" + totalBill);
28    }
29 }
30 }
```

Output:

```
(xenial)mlgskelly@localhost: ~/Scripting/Java/Labs
(xenial)mlgskelly@localhost: ~/Scripting/Java/Labs$ javac lab3_q1.java
(xenial)mlgskelly@localhost: ~/Scripting/Java/Labs$ java lab3_q1

Please enter the price of your meal.
>>27.89

Meal Charge:    $27.89
Tax:            $1.882575
Tip:            $5.578

Total:         $35.350575
(xenial)mlgskelly@localhost: ~/Scripting/Java/Labs$ □
```

## Question 2:

Source:

```
lab3_q1.java lab3_q2.java x
1 import java.util.Scanner;
2
3 public class lab3_q2{
4     public static void main(String[] args){
5
6         Scanner keyboard = new Scanner(System.in);
7
8         String name, city, college, profession, animal, petName;
9         int age;
10
11         System.out.print("\nPlease enter your name.\n>>");
12         name = keyboard.nextLine();
13
14         System.out.print("\nPlease enter your city.\n>>");
15         city = keyboard.nextLine();
16
17         System.out.print("\nPlease enter your college.\n>>");
18         college = keyboard.nextLine();
19
20         System.out.print("\nPlease enter your profession.\n>>");
21         profession = keyboard.nextLine();
22
23         System.out.print("\nPlease enter your animal's species.\n>>");
24         animal = keyboard.nextLine();
25
26         System.out.print("\nPlease enter your pet's name.\n>>");
27         petName = keyboard.nextLine();
28
29         System.out.print("\nPlease enter your age.\n>>");
30         age = keyboard.nextInt();
31
32         System.out.print("\nThere once was a person named " + name + " who lived in " + city + ".\n" +
33             "At the age of " + age + ", " + name + " went to college at " + college + ".\n" +
34             name + " graduated and went to work as a " + profession + ".\n" +
35             "Then, " + name + " adopted a(n) " + animal + " named " + petName + ".\n" +
36             "They both lived happily ever after!\n");
37     }
38 }
39
```

output:

```
(xenial)mlgskelly@localhost: ~/Scripting/Java/Labs
Addition.java lab2.class lab3.odt lab3_q1.java lab3_q2.java
(xenial)mlgskelly@localhost: ~/Scripting/Java/Labs$ java lab3_q2

Please enter your name.
>>Ben

Please enter your city.
>>Monroe

Please enter your college.
>>GTC

Please enter your profession.
>>computer programmer

Please enter your animal's species.
>>cat

Please enter your pet's name.
>>Jasper

Please enter your age.
>>20

There once was a person named Ben who lived inMonroe.
At the age of 20, Ben went to college at GTC.
Ben graduated and went to work as a computer programmer.
Then, Ben adopted a(n) cat named Jasper.
They both lived happily ever after!
(xenial)mlgskelly@localhost: ~/Scripting/Java/Labs$
```

