



## Intro to Java Sample Coding Assignment Document

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

**Instructions:** In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your Java project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

### Coding Steps:

1. Create a new Java project in Eclipse (make sure the JRE is set to 11).
2. Create a new class in the project and name it App. Make sure the box is checked for the option that reads "public static void main(String[] args)".
3. Inside the main method, create **two** variables for the following real-life examples and assign them values (choose the best data type for the values):
  - a. Item price
  - b. Amount of money in wallet
  - c. Number of friends
  - d. Age in years (as a whole number)
  - e. First name
  - f. Last name
  - g. Middle initial
4. Create the following variables by performing operations (addition, subtraction, concatenation) on the variables created in the previous step:



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- a. New amount of money in wallet after buying the item
  - b. Number of friends you've made each year based on your age variable and your number of friends variable
  - c. Full name based on first name, middle initial, and last name
5. Use System.out.println() to print out the values of all the variables you've created. Provide some detail as to what the value being printed is. For example, if I had a variable called favorite state, I would do the following:

String favoriteState = "AZ";

System.out.println("My favorite state is: " + favoriteState);

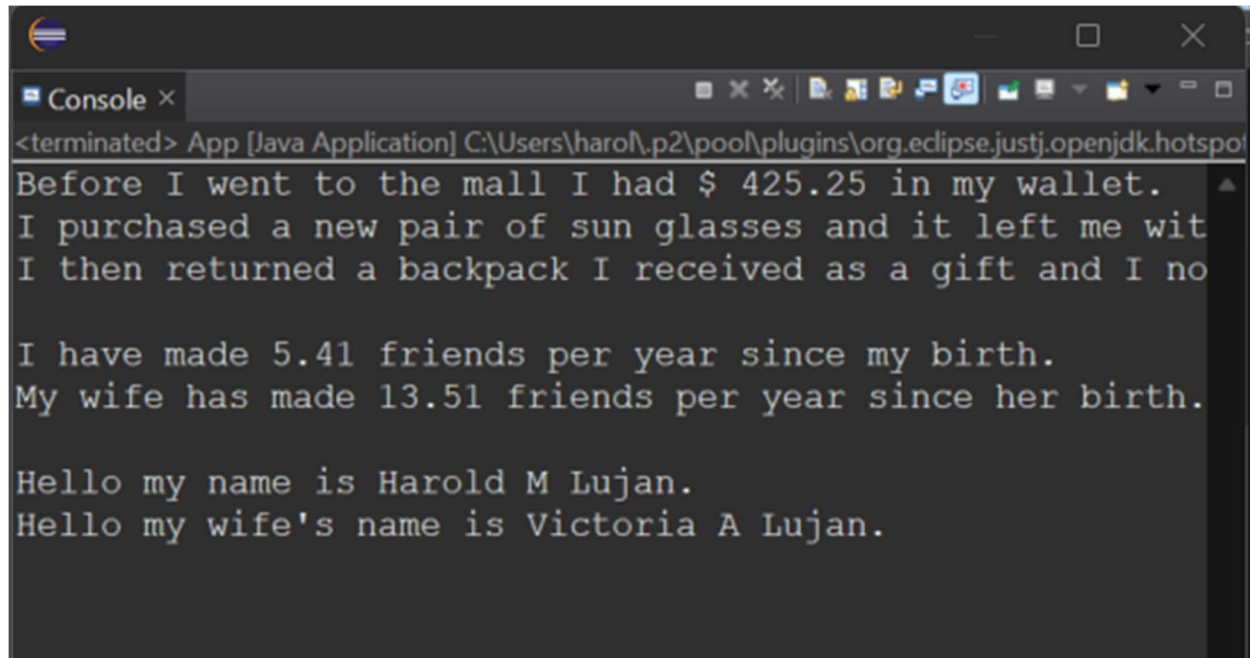
## Screenshots of Code:

```
App.java x
1 // Changed name of class to app.
2 public class App{
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6         // Week 3 Intro to Java Sample Coding Assignment Document
7
8         // Question 3a & b using primitive types to declare variables to hold Item Price & Amount of Money In My Wallet
9         double originalWalletAmount = 425.25;
10        double sunGlassesPrice = 210.25;
11        double returnBackPackPrice = 65.50;
12
13        //Question 4a setting variables to hold the sum of what is spent during a shopping trip 4a
14        double newWalletAmount1 = originalWalletAmount - sunGlassesPrice;
15        double newWalletAmount2 = newWalletAmount1 + returnBackPackPrice;
16
17        //Question 5 using the System.out.printf to keep the code clean and sent to the console.
18        System.out.printf("Before I went to the mall I had $ %.2f in my wallet.\n", originalWalletAmount);
19        System.out.printf("I purchased a new pair of sun glasses and it left me with $ %.2f.\n", newWalletAmount1);
20        System.out.printf("I then returned a backpack I received as a gift and I now have $ %.2f.", newWalletAmount2);
21        System.out.println("\n");
22
23        // Question 3c & d using primitive types to declare variables to number of friends and age for my wife & I.
24        int numberOfFriends = 200;
25        int myAge = 37;
26        int wifesNumberOfFriends = 500;
27        int wifesAge = 37;
28
29        // Question 4b setting variables to hold the average of how many friends we have made through our lifetime.
30        double avgFriendsPerYr = (double) numberOfFriends/myAge;
31        double avgFriendsPerYr2 = (double) wifesNumberOfFriends/ wifesAge;
32
33        //Question 5 using the System.out.printf to keep the code clean and sent to the console.
34        System.out.printf("I have made %.2f friends per year since my birth.\n", avgFriendsPerYr);
35        System.out.printf("My wife has made %.2f friends per year since her birth.\n", avgFriendsPerYr2);
36        System.out.println("");
37
38        //Question 3 e,f, & g using primitive types to hold our full names.
39        String myFirstName = "Harold";
40        char myMiddleInitial = 'M';
41        String myLastName = "Lujan";
42        String myWifesFirstName = "Victoria";
43        char myWifesMiddleInitial = 'A';
44        String myWifesLastName = "Lujan";
45
46        //assigning full name variable
47        String fullName = myFirstName + " " + myMiddleInitial + " " + myLastName;
48        String wifesFullName = myWifesFirstName + " " + myWifesMiddleInitial + " " + myWifesLastName;
49
50        //Question 5 using the System.out.printf to keep the code clean and sent to the console.
51        System.out.printf("Hello my name is %s.\n", fullName);
52        System.out.printf("Hello my wife's name is %s.", wifesFullName);
53    }
54
55    // end of main method
56
57 }
58
```



# PROMINEO TECH

Screenshots of Running Application:



```
<terminated> App [Java Application] C:\Users\harol\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot
Before I went to the mall I had $ 425.25 in my wallet.
I purchased a new pair of sun glasses and it left me wit
I then returned a backpack I received as a gift and I no

I have made 5.41 friends per year since my birth.
My wife has made 13.51 friends per year since her birth.

Hello my name is Harold M Lujan.
Hello my wife's name is Victoria A Lujan.
```

URL to GitHub Repository:

<https://github.com/HaroldLujan/Week3SampleCodingAssignment.git>