

# Intro to Java Week 1 Coding Assignment

**Points possible: 70**

Category	Criteria	% of Grade
<b>Functionality</b>	Does the code work?	25
<b>Organization</b>	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
<b>Creativity</b>	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
<b>Completeness</b>	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 1.8).
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:
    - 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:

```

1
2 public class Week1Homework {
3
4 public static void main(String[] args) {
5
6 // Item price
7
8 double itemPrice = 3.67;
9 double priceOfAnItem = 249.95;
10
11 System.out.println("The price for hand santazier is: " + itemPrice);
12 System.out.println("My AppleWatch cost: " + priceOfAnItem);
13
14
15 //Amount of money in wallet
16
17 double moneyInWallet = 37.86;
18 double money = 94.95;
19
20 System.out.println("My wife has " + moneyInWallet + " In her wallet");
21 System.out.println("I wish I had " + money + " In my wallet");
22
23 //Number of friends
24
25 int numberOfFriends = 86;
26 int friends = 10;
27
28 System.out.println("I have accumulated " + numberOfFriends + " Freinds");
29 System.out.println("Batman only has " + friends + " Friends" );
30

```

```

31 //Age in years (as a whole number)
32
33     int age = 21;
34     char mySistersAge = '6';
35
36     System.out.println("Desmond is " + age + " years old");
37     System.out.println("My sister is " + mySistersAge + " years old " );
38
39 //First name
40
41     String firstName = "Jaylynn";
42     String trainersFirstName = "Jr";
43
44     System.out.println("My wifes first name is " + firstName );
45     System.out.println("My trainer's first name is " + trainersFirstName);
46
47 //Last Name
48
49     String lastName = "Clifford";
50     String myLastName = "Young";
51
52     System.out.println("My mom's last name is " + lastName);
53     System.out.println("My last nmae is " + myLastName);
54
55 //Middle initial
56
57     char sistersMiddleInitial = 'R';
58     char myMiddleInitial = 'A';
59
60     System.out.println("Bella's middle intial begins with " + sistersMiddleInitial );
61     System.out.println("Desmond's middle intial begins with " + myMiddleInitial );
62

```

```

63 //New amount of money in wallet after buying the item
64
65     double AmountofMoneyInWallet = money - moneyInWallet;
66
67     System.out.println("I now have " + AmountofMoneyInWallet + " in my wallet after I went out to eat" );
68
69 //Number of friends you've made each year based on your age variable and your number of friends variable
70
71     int NumberOfFriendsIveMadeEachYear = age / friends;
72
73     System.out.println("I have made " + NumberOfFriendsIveMadeEachYear + " freinds each year based on my age.");
74
75 //Full name based on first name, middle initial, and last name
76
77     String wifesFirstName = "Jaylynn";
78     char middleInitial = 'A';
79     String wifesLastName = "Young";
80     String fullName = wifesFirstName + " " + middleInitial + " " + wifesLastName ;
81
82     System.out.println(fullName);
83

```

### Screenshots of Running Application:

```
The price for hand santazier is: 3.67
My AppleWatch cost: 249.95
My wife has 37.86 In her wallet
I wish I had 94.95 In my wallet
I have accumulated 86 Freinds
Batman only has 10 Friends
Desmond is 21 years old
My sister is 6 years old
My wifes first name is Jaylynn
My trainer's first name is Jr
My mom's last name is Clifford
My last nmae is Young
Bella's middle intial begins with R
Desmond's middle intial begins with A
I now have 57.09 in my wallet after I went out to eat
I have made 2 freinds each year based on my age.
Jaylynn A Young
```

### URL to GitHub Repository:

<https://github.com/DesmondYo/Week1App/blob/master/JAVAWeek1/src/Week1Homework.java>