

# Intro to Java Week 1 Coding Assignment

**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. Lastly, in the Learning Management System, click the "Add Submission" button and paste the URL to your GitHub repository.

## 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 **one** variable for each of the following real-life examples and assign them values (choose the best data type for the values):
  - 3.a Item price
  - 3.b Amount of money in wallet
  - 3.c Number of friends
  - 3.d Age in years (as a whole number)
  - 3.e First name
  - 3.f Last name
  - 3.g Middle initial

- 4 Create the following variables by performing operations (addition, subtraction, concatenation) on the variables created in the previous step:
  - 4.a New amount of money in wallet after buying the item
  - 4.b Number of friends you've made each year based on your age variable and your number of friends variable
  - 4.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 App {
3
4     public static void main(String[] args) {
5         // TODO Auto-generated method stub
6
7         // Variables
8         double tvPrice = 399.99;
9         int walletMoney = 1000;
10        float numberFriends = 129;
11        float ageYears = 28;
12        char middleInitial = 'J';
13
14        // Strings
15        String firstName = "Will";
16        String lastName = "Lindstrom";
17
18        // Variables created via operations
19        double leftoverWallet = walletMoney - tvPrice;
20        float friendsPerYear = numberFriends / ageYears;
21
22        // Print variables with descriptions
23        System.out.println("The cost of the new television is: " + "$" + tvPrice);
24        System.out.println("The amount of money I have is: " + "$" + walletMoney);
25        System.out.println("The number of friends I have is: " + numberFriends);
26        System.out.println("I am " + ageYears + " years old.");
27        System.out.println("My first name is: " + firstName);
28        System.out.println("My last name is: " + lastName);
29        System.out.println("My middle initial is: " + middleInitial);
30        System.out.println("My full name is: " + firstName + " " + middleInitial + " " + lastName);
31        System.out.println("The amount of cash I have left after buying the TV is: " + "$" + leftoverWallet);
32        System.out.println("I've made roughly " + friendsPerYear + " friends per years of my life.");
33
34    }
```

### Screenshots of Running Application:

```
Application.java  Operation.java  App.java x
7      // Variables
8      double tvPrice = 399.99;
9      int walletMoney = 1000;
10     float numberFriends = 129;
11     float ageYears = 28;
12     char middleInitial = 'J';
13
14     // Strings
15     String firstName = "Will";
16     String lastName = "Lindstrom";
17
18     // Variables created via operations
19     double leftoverWallet = walletMoney - tvPrice;
20     float friendsPerYear = numberFriends / ageYears;
21
22     // Print variables with descriptions
23     System.out.println("The cost of the new television is: " + "$" + tvPrice);
24     System.out.println("The amount of money I have is: " + "$" + walletMoney);
25     System.out.println("The number of friends I have is: " + numberFriends);
26     System.out.println("I am " + ageYears + " years old.");
27     System.out.println("My first name is: " + firstName);

```

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Problems @ Javadoc Declaration Console x

<terminated> App [Java Application] C:\Users\wlin\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_

The cost of the new television is: \$399.99  
The amount of money I have is: \$1000  
The number of friends I have is: 129.0  
I am 28.0 years old.  
My first name is: Will  
My last name is: Lindstrom  
My middle initial is: J  
My full name is: Will J Lindstrom  
The amount of cash I have left after buying the TV is: \$600.01  
I've made roughly 4.607143 friends per years of my life.

**URL to GitHub Repository:**

<https://github.com/wlindstrom55/week-1-assignments>