

Unit 7 Assignment

Grading Information: This Program is **due** on **Date Specified**.

Comments are **REQUIRED**; flow charts and pseudocode are **NOT REQUIRED**.

Directions	Points
<p>The files must be called <LastInitialFirstInitialUnit7.java> (driver) <LastInitialFirstInitialUnit7House.java> (handles house variables and methods)</p> <p><i>Proper coding conventions required the first letter of the class start with a capital letter and the first letter of each additional word start with a capital letter.</i></p> <p>Only submit the .java files needed to make the program run. Do not submit the .class file or any other file.</p>	5%
<p>Style Components</p> <p>Include properly formatted prologue, comments, indenting, and other style elements as shown in Chapter 2 starting page 64 and Appendix 5 page 881-892.</p>	5%
<p>Topics covered in chapter</p> <p>Topics with * are covered in this assignment. Ensure you use every item listed below with an * in your completed assignment.</p> <ul style="list-style-type: none">*Relationships between reference variables and objectsReference assignmentMemory spaceEquality of ObjectsSwap data in objects*Method call chaining*Object creating and initializationCalling one constructor from inside anotherClass variable usageClass methodsClass constants	
<p>Basic Requirements</p> <p>Write a driver and house class that gets input and using method call chaining creates 2 houses, imports the data from a text file, and outputs the results. Refer to chapter 3 on how to read in a file.</p>	
<p>LiFiUnit7.java</p> <p>Provide a driver class that demonstrates this house class. You the code below as the contents of you main method. Ensure you use the code provided exactly as given</p>	20%

inside your main method except for renaming your House class.

```
Scanner stdIn = new Scanner(System.in);
Scanner stdInFile = new Scanner(new
File("LiFiUnit7HouseData.txt"));
LiFiUnit7House_SU_2016 house1, house2; //New houses

//Create house 1 using default constructor
house1 = new LiFiUnit7House_SU_2016();
house1.print(); //print house 1 with default values

String street, city, state, zipCode;
int number;

System.out.println("Importing Number.");
number = stdInFile.nextInt();
stdInFile.nextLine();
System.out.println("Importing Street.");
street = stdInFile.nextLine();
System.out.println("Importing City.");
city = stdInFile.nextLine();
System.out.println("Importing State.");
state = stdInFile.nextLine();
System.out.println("Importing ZipCode.");
zipCode = stdInFile.nextLine();
System.out.println();

//use method call chaining to set values
//and print results for house 1
house1.setNumber(number).setStreet(street)
        .setCity(city).setState(state)
        .setZipCode(zipCode).print();

System.out.println("Importing Number.");
number = stdInFile.nextInt();
stdInFile.nextLine();
System.out.println("Importing Street.");
street = stdInFile.nextLine();
System.out.println("Importing City.");
city = stdInFile.nextLine();
System.out.println("Importing State.");
state = stdInFile.nextLine();
System.out.println("Importing ZipCode.");
zipCode = stdInFile.nextLine();
System.out.println();
```

```
//create house 2 using 5 parameter constructor
house2 = new LiFiUnit7House_SU_2016(number,
    street, city, state, zipCode);

//print house 2
house2.print();
```

This demonstration driver does not call all accessor and mutator methods but it is normal to create them regardless of an immediate use. They may be needed in the future.

Sample output is provided below. Be sure to mimic it exactly except for values entered.

LiFiUnit7House.java

Write a House class called LiFiUnit7House.java that implements the following methods.

- setNumber – receives the house number
- setStreet – receives the street name
- setCity – receives the city name
- setState – receives the state name
- setZipCode – receives the zip code

30%

Separate accessor methods for each instance variable utilized.

Method Call Chaining

Pay attention to implement **method call chaining** as prescribed in the main method given. This is the **main part** of the program for this week.

40%

NOTE: Complete your activity and submit it by clicking “Submit Assignment”

Total Percentage

100%

Data for Text File (name it LiFiUnit7House.txt)

```
8700
NW River Park Dr.
Parkville
MO
64152
1600
Pennsylvania Ave NW
Washington
```

DC
20500

Sample

Your output for House 1 and House 2 should match the sample below.

House Information

Number: 0
Street: No Street
City: No City
State: No State
Zip: No Zip Code

Importing Number.
Importing Street.
Importing City.
Importing State.
Importing ZipCode.

House Information

Number: 8700
Street: NW River Park Dr.
City: Parkville
State: MO
Zip: 64152

Importing Number.
Importing Street.
Importing City.
Importing State.
Importing ZipCode.

House Information

Number: 1600
Street: Pennsylvania Ave NW
City: Washington
State: DC
Zip: 20500