

LAB 1/29/2014

Lesson Set 2

1. Create a folder named Lesson Set 2. Put all files you create for this lab in this folder.
2. Download the Lesson Set 2 source files from ilearn and extract them into your Lesson Set 2 folder on your computer or jump drive.
3. Follow the directions below to complete Exercise 1 & Exercise 2 of Lab2.1. Create a screen capture of your program running after Exercise 3 and paste in a word processing document (MS Word, Open Office) named "Lesson Set 2 Screen Captures".

LAB 2.1 Working with the cout Statement

Exercise 1: Retrieve program name.cpp from the Lesson Set 2 Source Files folder.

Fill in the code so that the program will do the following:

Write your first and last name on one line.

Write your address on the next line (recall the function of the endl statement).

Write your city, state and zip on the next line.

Write your telephone number on the next line.

Remember that to output a literal, such as "Hello", you must use quotes.

Compile and run the program.

Example: Deano Beano
123 Markadella Lane
Fruitland, Md. 55503
489-555-5555



Exercise 3: Change the program so that the following (but with your name and address) is printed. Try to get the spacing just like the example. Compile and run the program.

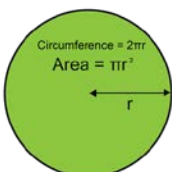
Programmer: Deano Beano
123 Markadella Lane
Fruitland, Md. 55503

Telephone: 489-555-5555

4. Follow the directions below to complete Exercise 1, Exercise 2 & Exercise 3 of Lab2.2. Create a screen capture of your program running after Exercise 3 and paste in a word processing document (MS Word, Open Office) named "Lesson Set 2 Screen Captures".

LAB 2.2 Working with Constants, Variables and Arithmetic Operators

Exercise 1: Bring in the file circlearea.cpp from the Lesson Set 2 source files folder.



Exercise 2: Fill in the blanks and the cout statements so that the output will produce the following:

The circumference of the circle is 33.912
The area of the circle is 91.5624

Exercise 3: Change the data type of circumference from float to int. Run the program and record the results.

The circumference of the circle is _____.

The area of the circle is _____.

5. Follow the directions below to complete Exercise 1 & Exercise 2 of Lab2.4. Create a screen capture of your program running after Exercise 2 and paste in a word processing document (MS Word, Open Office) named "Lesson Set 2 Screen Captures".

LAB 2.4 Working with Characters and Strings

Exercise 1: Retrieve program `stringchar.cpp` from the Lesson Set 2 source files folder. This program illustrates the use of characters and strings. The `char` data type allows only one character to be stored in its memory location. The `string` data type (actually a class and not a true data type built into the language) allows a sequence of characters to be stored in one memory location.



Exercise 2: Fill in the indicated code, then compile and run the program. Continue to work on the program until you have no syntax, run-time, or logic errors.

The output should look similar to the following:

The preferred soda is Dr. Dolittle

The preferred snack is crackers

Out of 250 people 148 chose these items!

Each of these products were given a rating of A from our expert tasters

The other products were rated no higher than a B

6. WHAT TO TURN IN:

The following files should be zipped together in a folder and uploaded to the "LAB 01-29-2015" dropbox folder on ilearn.

- name.cpp
- circlearea.cpp
- stringchar.cpp
- Lesson Set 2 Screen Captures (document containing screen captures of the above programs running)