Assignment 00

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Objective

In this assignment, you need to demonstrate the use of basic data types of C, and practice using stream I/O to get and display data on the terminal.

Write a complete C program that uses all of the following data types (see Deitel chapter 6, pg. 218 for a complete list):

- int

- char

- short

- long

- float

- double

- unsigned

- bool

You should prompt the user to enter an appropriate value that can be stored in the type, and then you should perform some manipulation of the type and display the result.

Lab Submission

On the day of the lab, you simply need to complete a demonstration of getting an int data type and then manipulating the int and displaying the result after performing your calculation. Your program needs to be completed in class, and should be uploaded to the Lab-00 dropbox on our eCollege submission system.

Programming Submission

Then, by the end of next Tuesday (1/27), you need to complete your program as specified above to demonstrate using all of the required list of data types to input a value and display a result of a manipulation.

Requirements

Your programs must conform to the style and formatting guidelines given for this course. In particular, you should have a program header in your file (with your name, cwid, date, description, etc. information). In addition, though your program will only consist of a single `main()` function, I want you to get into the habit of providing function documentation as well. You may use the following function documentation for basic `main()` functions for the initial programming assignments for this course.

[]cpp /** program entry point * The main entry point of the program. Execution of the program * will begin in this function. * * @returns an int 0 for successful program completion. */ int main() // programming assignment implementation goes here