CS1337 , Assignment 0

Problem Description:

The purpose of this assignment is to edit/compile/test a simple multi source C++ program, then package all needed files for submission.

Instructions

Part 1

1. Create a folder in your computer called assignment0, then create two folders inside assignment0 folder, called part1 and part2

2. Copy the file "circle.cpp" to your part1 folder

3. Edit your file with Visual Studio code. Look for the comment labeled – TODO--, and finish it. The code for the two functions "findArea" and "findCircumference" are not complete. The main function and pre-compiler directives might also need some work. ADD your code block comment.

4. From your terminal window, compile your code with the following comment:

    ```
    g++ -c circle.cpp
    ```

5. If the command in step5 does not produce any error, link your code with the command:

    ```
    g++ -o circle circle.o
    ```

6. Execute the code, by running the following command from your terminal:

    ```
    ./circle (or .\circle  for Windows)
    ```

Make sure the code produces the desired output.

Part 2

1. Copy "circle2.cpp" code to part2 folder

2. Create two files called "circle_function.cpp" and "circle_fiunctions.h"

3. Move the code of "findArea" and "findCircumference" from part 1 "circle.cpp" to "circle_function.cpp". Update "circle_functions.h" and "circle_function.cpp" to have the header and definition of the both "findArea" and "findCircumference" functions

4. From your terminal window, compile your "circle_fiunctions.cpp" with the following comment:

    ```
    g++ -c circle_functions.cpp
    ```

5. From your terminal window, compile your "circle2.cpp" with the following comment:

    ```
    g++ -c circle2.cpp
    ```

6. If steps 4/5 do not produce any error, link your code with the command:

`g++ -o circle2 circle2.o circle_functions.o`

7. Execute the code, by running the following command from your terminal:

`./circle2 (or .\circle2` for Windows**`)`**

Make sure the code produces the desired output.

8. When done
   a. Delete your executables (.exe) and your object files (.o)
   b. Zip your complete "assignment0" folder under the name of **"assignment0_<first-name>_<last-name>.zip"**, then submit it to e-learning