

CS 1336
Assignment #1
Due September 12, 2016 at 10:00pm.

Important: To complete this assignment you are only allowed to use what is discussed in Chapters 1 - 2 of the text or lectures.

Exercise 1 (50 points)

Write a program that displays your name, the best place you have visited, and a place that you have never visited, but would like to visit on three separate lines on the computer screen. Practice using `cout` by: using multiple `cout` statements to display a single line of output, using fewer `cout` statements than the lines of text displayed with the output statements, using a mix of the `endl` stream manipulators and the newline escape sequences in your program.

Sample output of a program that satisfies the requirements of this program is shown below (supposing the student's name is Victor E. Green).

Sample Output 1

```
Name: Victor E. Green
Best Place Visited: Vancouver, BC
Want to Visit: Lucca, Italy
```

Exercise 2 (50 points)

Write a program that gets the radius of a circle from the user and then displays the circle's diameter, circumference and area on the computer screen. Use the constant value 3.14159 for π . Try to make the output of your program as close as possible to the sample output provided below.

Sample Output 1

```
Please enter the radius of a circle: 3

A circle with radius = 3 units has:
    Diameter = 6 units
    Circumference = 18.8495 units
    Area = 28.2743 sq. units
```

Sample Output 2

```
Please enter the radius of a circle: 6.25

A circle with radius = 6.25 units has:
    Diameter = 12.5 units
    Circumference = 39.2699 units
    Area = 122.718 sq. units
```

General Instructions:

You will submit two files for this assignment: your source code file for Exercise 1 and your source code file for Exercise 2. Please note the file containing the C++ source code has the .cpp extension. We do not need your executable file, we will compile your program during grading. Add both files as attachments before clicking the **Submit** button. (This is the only acceptable mode of submission).

Your files must be named as follows:

<1st Initial of first name><1st Initial of last name>_<Gradebook number>_A<Assignment number>_EX<Exercise number>.cpp

For example, Charlie Brown's exercise 2 for Assignment #1, would be named CB_19_A1_EX2.cpp, assuming that Charlie's gradebook number is 19.

All of your programs for this course must have a comment at the top of the source code that includes:

The programmer's name

The programmer's gradebook number

A description of the program

Please note the due date and time for this assignment given above. You may submit multiple times, but we will only grade your last submission. If you need to resubmit a portion of the assignment, you must resubmit all of your files. Notice that if your last submission is late we will deduct the late penalty. You may submit an assignment up to 24 hours after the due date and time with a 20 point penalty. No excuses will be entertained for late assignments.

You are expected to submit source code for the programs you wrote yourself. The source code must adhere to conventions and programming style guidelines described in the document "CS 1336 Programming Style Guidelines" to receive full credit. **The grader will compile your program using the MinGW C++ Compiler Version 16.01 with the Code::Blocks IDE. Your source code must compile using these tools.** We do not correct any compiler/syntax errors when grading. We cannot test programs that do not compile. If your program does not compile, it will be treated as if it failed all tests and the grading will reflect this treatment.