Homework Assignment 6

Due: 11:59PM, Thursday, March 2nd, 2017

Write a program to compute the body mass index (BMI) of the user. Your program should allow the user to input his/her full name, height (in meters), and weight (in kilograms). Then your program should display the BMI of the user in a table.

The name of the user should occupy 25 characters and should be left justified.

The height should occupy 10 characters. The weight should occupy 10 characters. BMI should occupy 8 characters. They should all be right justified. All numbers will show exactly 2 digits on the right side of the decimal point.

The output of your program should be like this:

Please enter your name:

Fang Bian

Please enter your height in meters:

1.83

Please enter your weight in kilograms:

80

Name Height Weight BMI

Fang Bian 1.83 80.00 23.89

Requirements:

In this assignment, you should not use spaces or tabs to format your output.

You should manipulate cout using setw(), setprecision(), left, right, etc.

You should provide a simple user interface to tell the user when to input the name, height and weight.

You do not need to consider the case when the user’s name is longer than 25 characters or has non-English alphabet.

You do not need to consider the case when the user enters a negative number or a non-numerical value for the height or weight.

Hint:

Check Page 117 of the textbook to see how to manipulate cout.

You must include <iomanip> to manipulate cout.

You must include <string> to fully operate strings.

You must include <cmath> to use math functions.

BMI is computed using this equation: (BMI is the weight divided by the square of the height.)