**Lab #2 (10 points) + Bonus 2 (5 points)**

# Practice: numbers and strings

Problem: BMI (Body Mass Index) Calculation

Write a program to do:

1. Ask user to enter weight in pounds and height in inches (not feet)
2. Calculate the user’s BMI
3. Print out the user information (weight, height, BMI, and a thank you message.)

BMI = Weight in Pounds / ( Height in inches)2 x 703

Required testing cases:

|  |  |
| --- | --- |
| weight | height |
| 102 lbs | 56 inches |
| 160.5 lbs | 71 inches |
| 250 lbs | 67.5 inches |
| Your choice of data | Your choice of data |

Submission requirement:

1. Copy and paste the output of all your test runs to the end of your program and comment out the output
2. Upload your Python program (with output added) to blackboard along the Lab 2 link.

Bonus (5 points)

Testing requirements:

In addition to testing above normal cases, test for abnormal cases: what happens if enter weight as 0, height as 0, negative numbers or non-numbers? What will the Python interpreter output – an error message or a special value? Provide 5 different tests as suggested below:

Test 1: weight is 0, height not 0.

Test 2: weight is not 0, height is 0.

Test 3: both weight and height are 0.

Test 4: weight is a negative number.

Test 5: weight is not a number, say 56lbs.