Hello, World!

EMT1111: Logic and Problem Solving | Spring 2016 | Dr. Mendoza

LESSON 11: Python Problem Solving (homework)

SIMPLE PYTHON PROGRAMS III

Homework Assignment: *BMI*

Write a Python program to calculate the **Body Mass Index** of the user.

- **Body Mass Index (BMI)** is a measure of body fat that is useful in screening for health issues. Generally speaking:
  - A BMI of 18.5 or less is considered *underweight*.
  - A BMI between 18.5 to 24.9 is considered *healthy*.
  - A BMI between 25-29.9 is considered *overweight*.
  - A BMI of 30 or over is considered *obese*.

- To calculate a BMI, you need the height in inches and the weight in pounds (*you need to ask the use to input those values*). You square the height, then divide the weight in pounds by the squared-height.

  BMI is defined in terms of meters and kilograms, so to convert from pounds and inches to meters and kilograms, simply multiply by 703.

Your program should print the BMI of the user as well as a message indicating whether the user is underweight, healthy, overweight, or obese.

Homework Assignment: BMI Sample program run

```
What is your height in inches? 65
What is your weight in pounds? 135
Your BMI is: 22.4627218935
You are considered healthy
```

```
What is your height in inches? 60
What is your weight in pounds? 142
Your BMI is: 27.7294444444
You are considered overweight
```

Homework Assignment: BMI Starter Code

```
height = 65
weight = 135
heightSquared = height **2
BMIinchespounds = weight / heightSquared
BMI = BMIinchespounds * 703
print("BMI:")
print(BMI)
```

```
BMI:
22.4627218935
```

Homework Assignment (schedule)

Write a Python program to ask the user for the day of the week. Then, depending on the day entered by the user, the program should display the class that the user takes on that day according to the following table:

Day	Class
Monday	Yoga 101
Tuesday	Calculus I
Wednesday	Web Development
Thursday	University Physics I
Friday	Computer Science Seminar

*Tip: You will need to use 5 **if** statements (without **else**)*