Assignment 1 — The Body Mass Index Calculator

Due: Midnight Nov. 27, 2016

In this assignment, you are going to create an app that calculates the body mass index for the user.

This app accepts the user's height in centi-meters and the user's weight in kilo-grams, and then calculates the body mass index using the following formula:

$$BMI = weight\ (kg)\ /\ height\ (m)^2$$

The app then consults the following chart to print out a summary message about the healthiness of the user.

BMI	Healthiness
<=18.4	Under Weight
18.4< x <=25.0	Normal Weight
25.0< x <= 30.0	Over Weight
>30.0	Obese

Here are the requirements of this app:

1. This app is a single-view application
2. This app should accepts two decimal numbers: weight (kg) and height (cm)
3. This app should display two things: 1) the BMI value; 2) the healthiness of the user
4. This app should contain a button. When the user clicks the button, the app will calculate the BMI value
5. This app's UI should be adaptive to different devices and device orientations
6. This app's UI should be drawn using stack views and auto layout

Bonus:

1. This app can accept weight in pounds and height in inches. Note that the formula for calculating BMI is different when using pounds and inches.