# Assignment 5 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Your target for this assignment is to create a simple web BMI calculator that lets the user enter his or her weight(in pounds) and height(in inches), then calculates a person’s body mass index. A person’s BMI is calculated with the following formula: BMI = weightx703/ height^2.
2. Here are grading rubrics/specifications for BMI calculator.

* Name your file bmi.html
* In the assignment section of your index.html document, create a link which links to this document “bmi.html”.
* Input text box and label for Weight, please use unit **pounds**.
* Input text box and label for Height, please use unit **inches**.
* Input text box for User’s Name
* Drop down list (Select Tag) for User’s Age
* Button “Compute BMI”
* A vertical bar that shows the BMI category
* A MII image
* JavaScript function that read inputs and calculate BMI
  + Read input
  + Display a personalized welcome message.
  + If user’s age is less than 20, remind the user to use BMI percentile chart (<https://www.cdc.gov/growthcharts/data/set1clinical/cj41l023.pdf> , https://www.cdc.gov/growthcharts/data/set1clinical/cj41l024.pdf ) to determine weight category.
  + \*Validate the input\* -- You should reject the input if it is not a valid number
  + Convert input to float type
  + Perform the calculation
  + Display the BMI. Keep two decimal places.
  + Alert the user if he is in the overweight or obesity category (BMI >=28)
  + Create an animation that shows a comparison of change in BMI for varying weight.
  + Open a new page <http://www.nhlbi.nih.gov/health/public/heart/obesity/lose_wt/control.htm> if the user is overweight.
* Before you submit your file, be sure to check this checklist.
* To submit:
  + Upload your files to GitHub.
  + Please turn in this page with items checked to instructor on due date.