

Assignment 4 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: $BMI = \text{weight} \times 703 / \text{height}^2$.
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 ($BMI \geq 28$)
 - ☐ 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.