

## Assignment W1 – Web Programming

To Do:

In this assignment you have to develop two implementations of a simple user interface. The implementations should include: 1) a client JavaScript implementation, and 2) a server PHP implementation. The following are the input, submission, and display requirements concerning the applications:

- 1) JavaScript – Use a ‘text field’ under the ‘get’ method for numerical input, a ‘submit’ button, a radio button for selecting the BMI formula (Imperial vs. Metric), and instruction such as ‘alert’ for output.
- 2) PHP – Use a ‘text field’ under the ‘post’ numerical method for input, a ‘submit’ button, a check box for selecting the BMI formula (Imperial vs. Metric), and the ‘Echo’ instruction for output.

### Screenshots

1. Javascript – Input entered.

← → ↻ file:///C:/Users/Vimmi/OneDrive/Documents/test.html?weight=1112&height=64

## Calculate BMI (Body Mass Index)

Weight:

(pounds)

Height:

(inches)

BMI Method:

☒ Imperial ☐ Metric

BMI:

2. Javascript- Select BMI method as Metric. Units of weight and height change due to change in method.

## Calculate BMI (Body Mass Index)

Weight:

(kilograms)

Height:

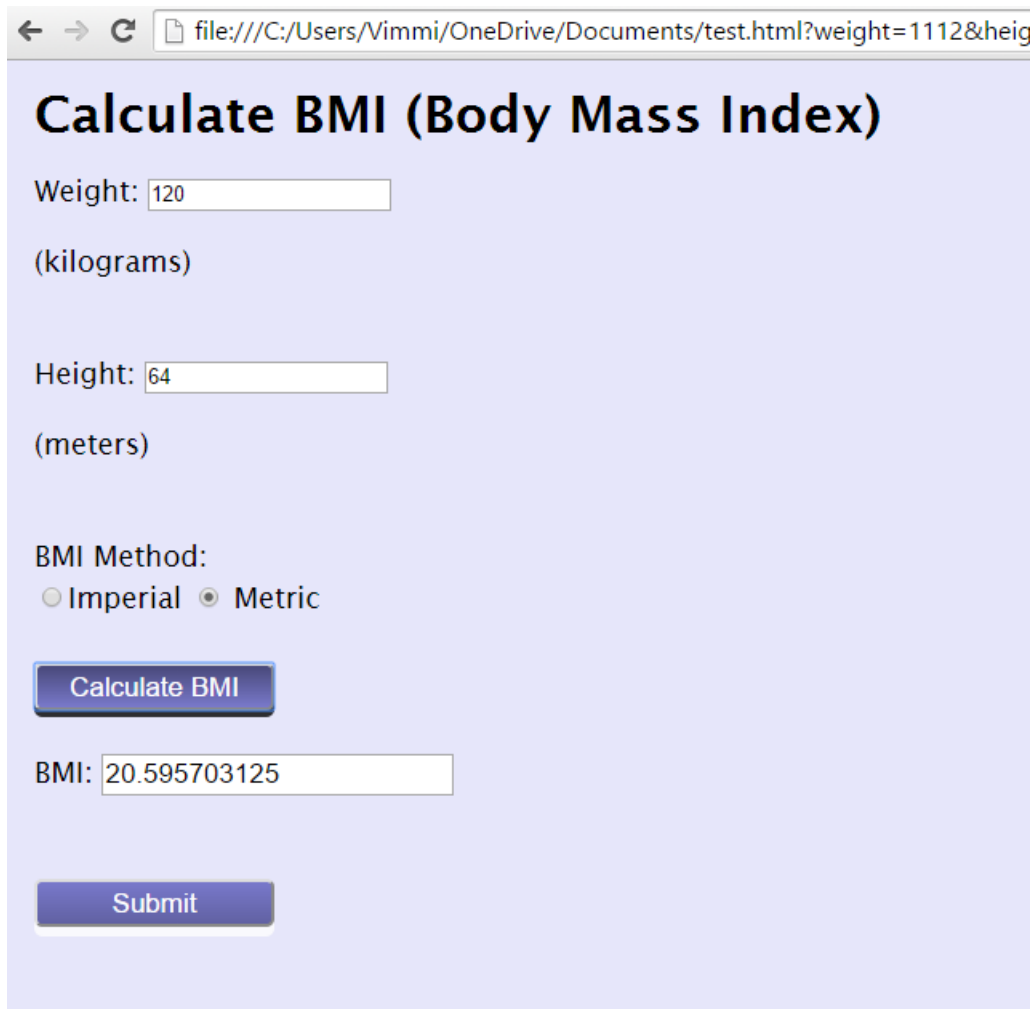
(meters)

BMI Method:

☐ Imperial ☒ Metric

BMI:

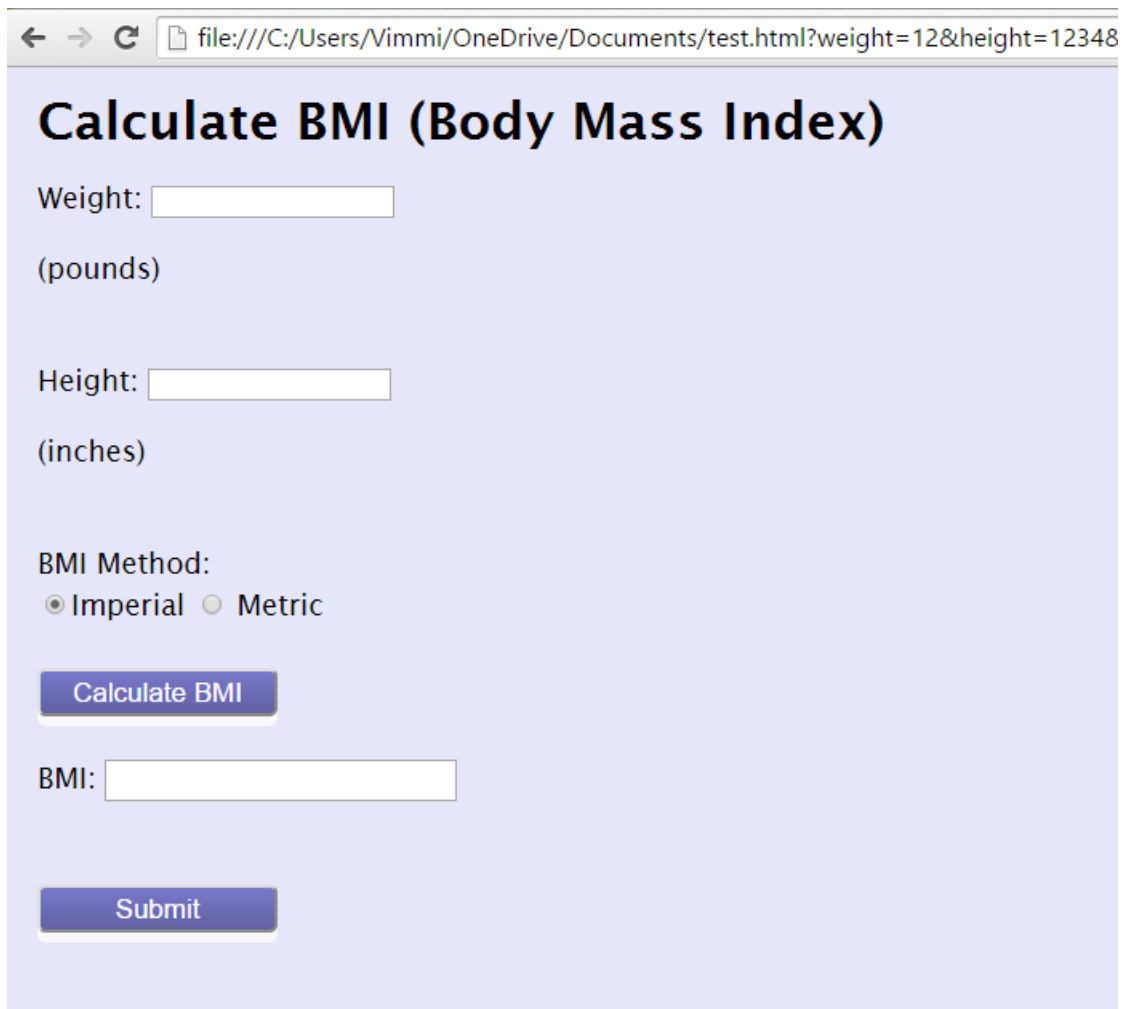
3. Javascript – Click on Calculate BMI button. BMI value is displayed in box below.



The screenshot shows a web browser window with the address bar displaying the file path: `file:///C:/Users/Vimmi/OneDrive/Documents/test.html?weight=1112&heig`. The page has a light blue background and is titled "Calculate BMI (Body Mass Index)". It contains the following elements:

- Weight:** A text input field containing the value "120". Below it, the unit "(kilograms)" is displayed.
- Height:** A text input field containing the value "64". Below it, the unit "(meters)" is displayed.
- BMI Method:** Two radio buttons are present: "Imperial" (which is unselected) and "Metric" (which is selected).
- Calculate BMI:** A blue button with white text.
- BMI:** A text input field containing the calculated value "20.595703125".
- Submit:** A blue button with white text.

4. Javascript – Click on submit button. All textboxes are cleared.



← → ↻ file:///C:/Users/Vimmi/OneDrive/Documents/test.html?weight=12&height=12348

## Calculate BMI (Body Mass Index)

Weight:

(pounds)

Height:

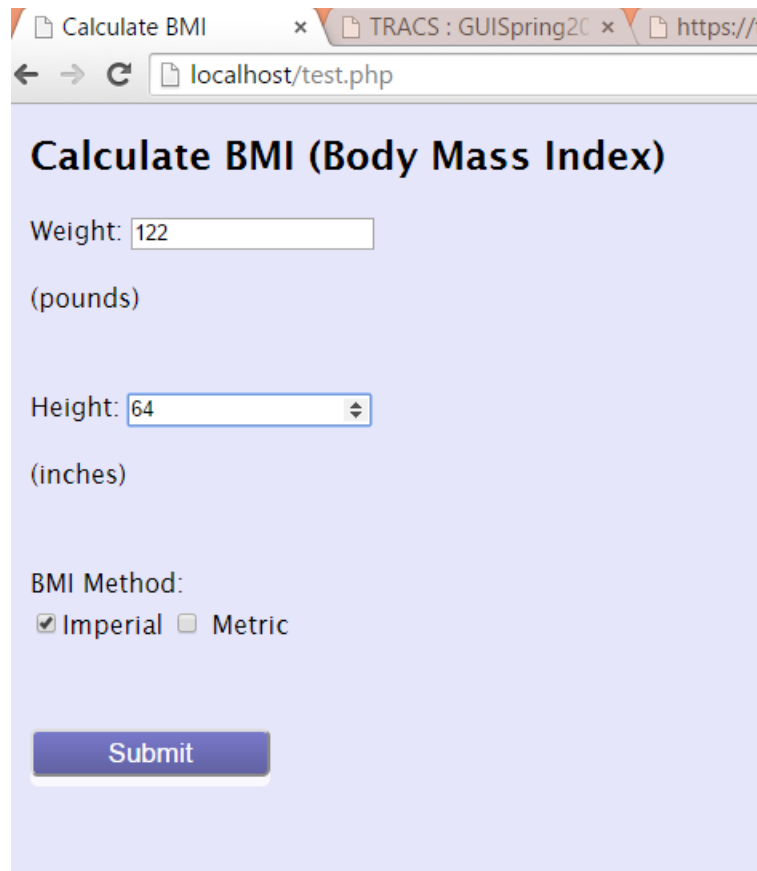
(inches)

BMI Method:

☒ Imperial ☐ Metric

BMI:

5. PHP – Input entered.



The screenshot shows a web browser window with three tabs: "Calculate BMI", "TRACS : GUISpring20", and "https://". The address bar shows "localhost/test.php". The page content is a BMI calculator form with a light blue background. The title is "Calculate BMI (Body Mass Index)". There are two input fields: "Weight: 122" (a text box) and "(pounds)" below it, and "Height: 64" (a dropdown menu) and "(inches)" below it. Underneath these is the "BMI Method:" section with two radio buttons: "Imperial" (checked) and "Metric". At the bottom is a blue "Submit" button.

Calculate BMI (Body Mass Index)

Weight: 122

(pounds)

Height: 64

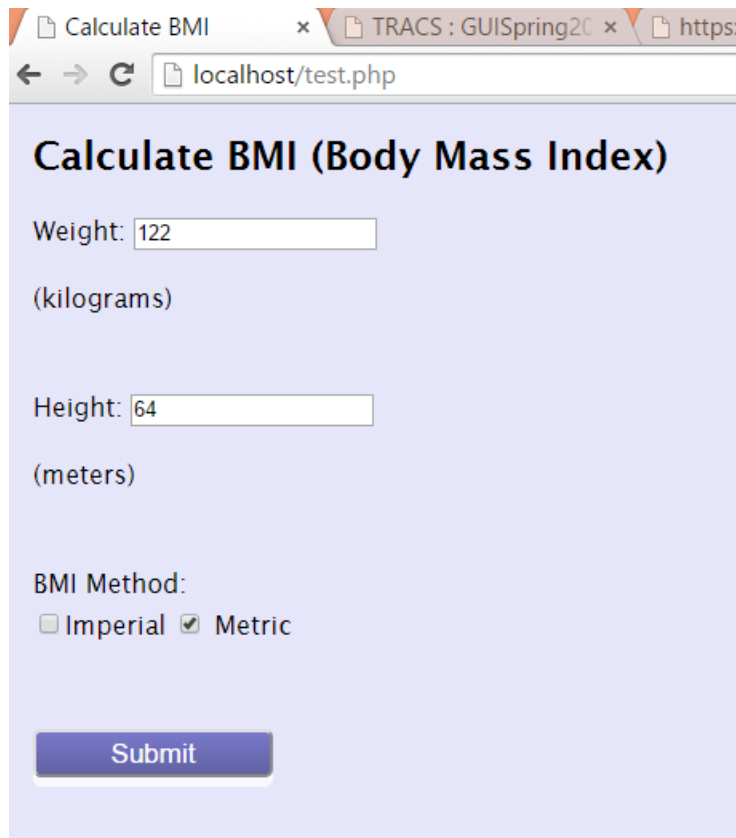
(inches)

BMI Method:

☒ Imperial ☐ Metric

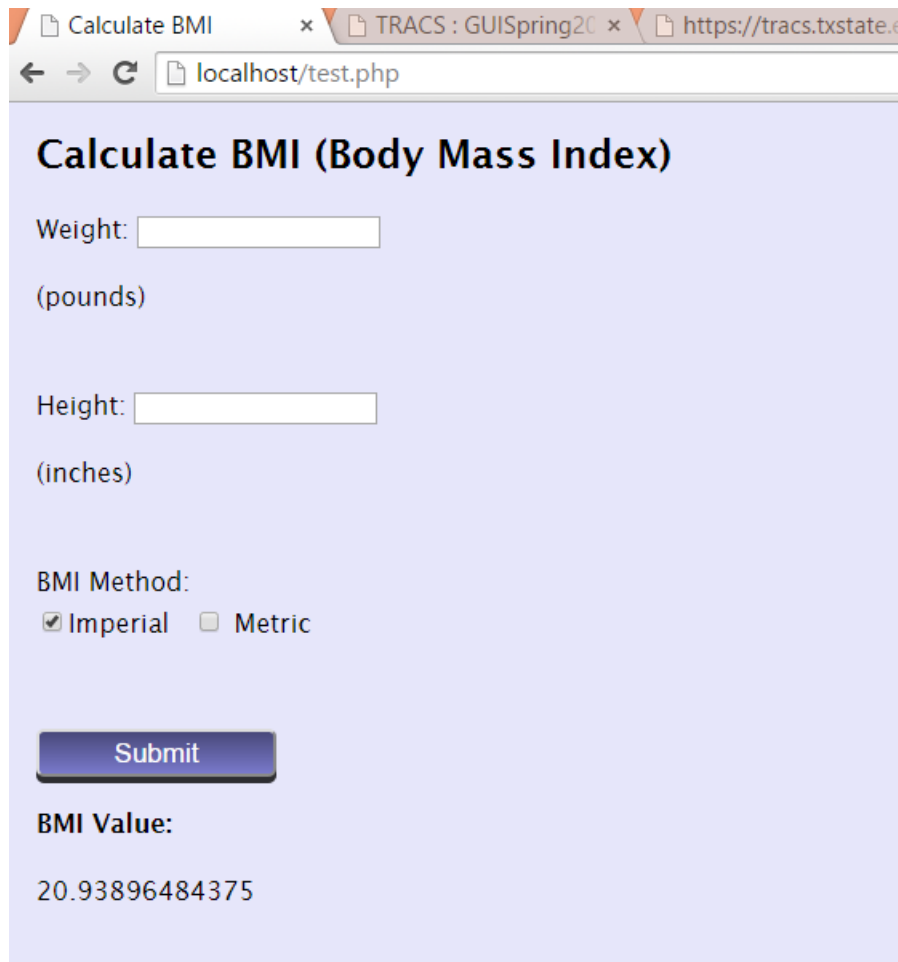
Submit

6. PHP – Change BMI method to Metric. As a result, units of height and weight change.



The screenshot shows a web browser window with the title "Calculate BMI". The address bar displays "localhost/test.php". The page content is titled "Calculate BMI (Body Mass Index)". It features two input fields: "Weight: 122" and "Height: 64". Below the weight field, the unit "(kilograms)" is displayed. Below the height field, the unit "(meters)" is displayed. Under the heading "BMI Method:", there are two radio buttons: "Imperial" (unchecked) and "Metric" (checked). At the bottom, there is a blue "Submit" button.

7. PHP – Output – Click on Submit button. BMI Value is displayed below it.



The screenshot shows a web browser window with three tabs: 'Calculate BMI', 'TRACS : GUISpring20', and 'https://tracs.txstate.e'. The address bar shows 'localhost/test.php'. The page content is on a light blue background and includes the title 'Calculate BMI (Body Mass Index)'. There are two input fields: 'Weight:' and 'Height:', both followed by '(pounds)' and '(inches)' respectively. Below these is a 'BMI Method:' section with two radio buttons: 'Imperial' (checked) and 'Metric'. A blue 'Submit' button is positioned below the radio buttons. At the bottom, the text 'BMI Value:' is followed by the numerical result '20.93896484375'.

**Calculate BMI (Body Mass Index)**

Weight:

(pounds)

Height:

(inches)

BMI Method:

☒ Imperial ☐ Metric

**Submit**

**BMI Value:**

20.93896484375