

WAD Midterm Exam (Spring 19)

Program Name BSCS

Course Code CSSE3143

Course Name Web Application Development

Course Instructors Muhammad Ali Makhdoom

Time Allowed 90 mints

Total marks available 100

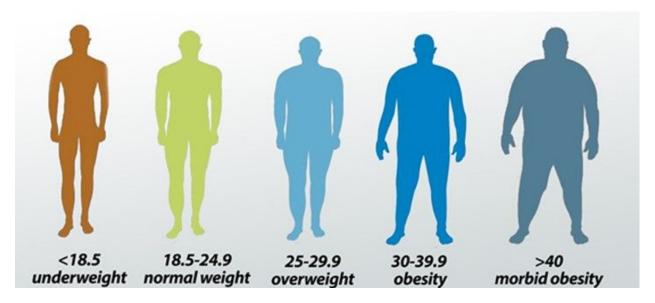
Academic Honesty Policy Academic dishonesty will not be tolerated. Academic dishonesty

includes cheating, plagiarism (copying) or any other attempt to gain an

academic advantage in a dishonest or unfair manner.

Instructions (Designing a *BMI Application*)

You need to design a **mobile-first** *BMI* application so that users can calculate their **body mass index** (**BMI**) which is measure of body fat based on height and weight. Users should be able to enter height in centimeters or feet,in and weight in pound or kg. Application should response with the image



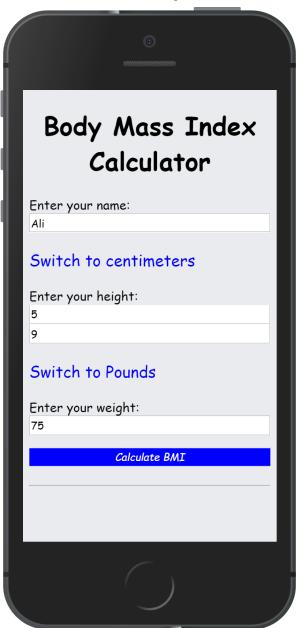
according to calculated BMI calculated with user's height and weight as given in screenshots.

A zip file which contains the content of the Web page is provided to you. This zip file contains "index.html" file, a "css" folder with "style.css" file inside it, a "js" folder with "main.js" file inside it, a "images" folder with different images representing the BMI categories inside it to load dynamically with javascript and a "screenshots" folder with the final targeted design screenshots for multiple devices. All your HTML code should be added to "index.html" file, all your CSS rules should be added to "style.css" file and all javascript code should be add in "main.js". You shouldn't remove, add, or move any file or folder.

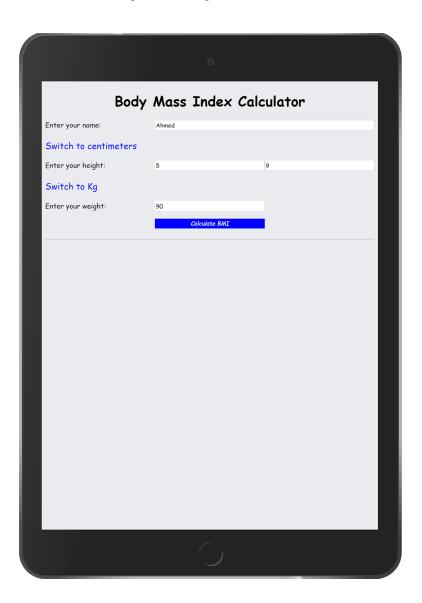
Submission

Compress all the files into a zip file and submit it to the "mid-term" folder submission directory on LMS.

View on below 600px screen width



View on 600px - 799px screen width



View on 800px and greater screen width



Question 01

Pick your favorite font from google fonts and apply it in all html tags.
 Hint:

Use universal selector in external CSS

2. Change the background color of the button from **blue** to **dark blue** within *half second* when user bring mouse cursor over it. (7)



Hint: Use CSS property in .btn class and Pseudo Class in external CSS file

3. Replicate 12 column classes (col-s-*) for small devices starting from 600px to 799px in a media query in external CSS file. (7)

Hint:

min-width

Question 02

- 1. Display and hide input fields on mouse click so that user can enter value in different known formats of height (centimeters, feet + in).
 - Attach dynamic click event using javascript with anonymous function. (10)
 - Toggle hide class on click.

(10)

We had done Similar activity in class, find it here.

View Before click



View After click



Hint:

Display: none;

Hide class is already applied to hide input field.

Attach the click event with variable hs.

addEventListener

classList.toggle

3. Repeat the above for weight fields as well (pounds, kg). (10)

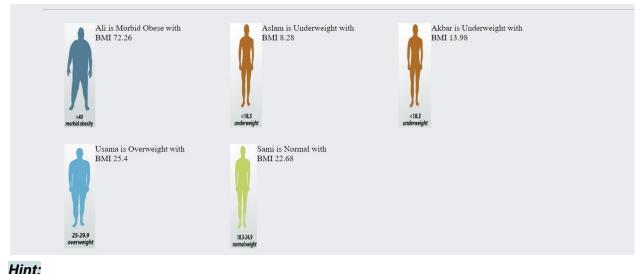


Question 03

- 1. Attach click event with button function *computeBMI* in main.js

 Calculate BMI
 , and callback

 (5)
- BMI value is already calculated in variable *output*, check the value of BMI and call function *displayResult()* with parameters (*bmi, message, image name*) accordingly using conditions.
- Create <u>figure</u>, img and figcaption elements dynamically and append in div with id users in displayResult() function the view should look like the following. Set image src attribute dynamically according to BMI value. Images are given in images folder. (30)



createElement innerHTML setAttribute classList.add

ciasslist.add

append

 Clear all the fields in *clearFields()* so that user can enter new values of weight and height.