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| **Ex no: 3 a)** | **BMI CALCULATOR** |
| **Date:** |

# Aim:

To create a BMI Calculator using HTML, CSS and JavaScript.

# DESCRIPTION:

This webpage is created to demonstrate BMI of a person. we enter the parameters as Height and Weight of the concerned Person which calculates the BMI of them and gives the output. For that we are using HTML, CSS and JavaScript for its creation process.

**PROCEDURE:**

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| **Tags used** | **Description& its Attributes used** |
| <html> | Represents the root of an HTML document. |
| <head> | It is the container for metadata |
| <title> | Defines a title in the browser toolbar. |
| <body> | It contains all the contents of an HTML document. |
| <h1>to<h6> | Used to define the HTML headings. |
| <p> | Used to define a paragraph. |
| <div> | Defines a division or a section in an HTML document. The <div> tag is used as a container for HTML elements - which is then styled with CSS or manipulated with JavaScript. |
| <form> | An HTML form is used to collect user input. The user input is most often sent to a server for processing. |
| <caption> | used to add a caption or title of an HTML table. It should be used inside the <table> element and just after the <table> start tag. A table may contain only one <caption> element. |
| <tr> | defines a row in an HTML table |
| <th> | defines a table header |
| <td> | defines a table cell. |
| var | the keyword that tells JavaScript you're declaring a variable. |

# Code:

# index.html:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<link rel="stylesheet" href="Java.css" />

<link

rel="stylesheet"

href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css"

/>

<title>BMI Calculator</title>

</head>

<body>

<div class="container">

<h1>BMI Calculator</h1>

<p class="hading">Height</p>

<input type="text" id="hinp" />

<p class="hading">Weight</p>

<input type="text" id="winp" />

<p id="result"></p>

<div id="btn"><button onclick="cal()">Calculate</button></div>

<p id="note">Please Enter Height in [cm] and Weight [kg].</p>

</div>

<script src="main.js"></script>

<script

src="https://kit.fontawesome.com/1d057aa443.js"

crossorigin="anonymous"

></script>

</body>

</html>

**java.css :**

@import url("https://fonts.googleapis.com/css2?family=Roboto:ital,wght@0,100;0,300;0,400;1,100;1,300&display=swap");

\* {

padding: 0;

margin: 0;

box-sizing: border-box;

}

body {

width: 100%;

height: 100vh;

display: flex;

justify-content: center;

align-items: center;

background: url("ae42e483bf459a77366e39a9837122a2.jpg");

background-size: cover;

background-position: center;

font-family: "Roboto", sans-serif;

}

.container {

height: 500px;

width: 450px;

box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.7);

background: rgba(0, 0, 0, 0.4);

border-radius: 10px;

color: #fff;

padding-top: 80px;

}

.container h1 {

font-size: 50px;

font-family: "Roboto", sans-serif;

font-style: normal;

display: flex;

align-items: center;

justify-content: center;

}

.container > .hading {

margin-top: 20px;

margin-left: 60px;

font-size: 18px;

}

.container > input {

width: 70%;

margin-top: 10px;

margin-left: 60px;

background: transparent;

border: none;

outline: none;

border-bottom: 2px solid #fff;

color: #fff;

font-size: 18px;

}

#result {

display: flex;

justify-content: center;

align-items: center;

text-align: center;

margin: 15px 0;

height: 30px;

color: #fff;

background: transparent;

font-size: 18px;

margin-bottom: 10px;

}

#btn {

display: flex;

align-items: center;

justify-content: center;

}

#btn > button {

width: 50%;

height: 10%;

margin-top: 0px;

font-size: 25px;

border-radius: 8px;

outline: none;

border: none;

cursor: pointer;

box-shadow: 2px 2px 10px rgba(0, 0, 0, 0.9);

font-family: "Roboto", sans-serif;

font-style: normal;

}

#note {

margin-top: 20px;

font-size: 18px;

display: flex;

align-items: center;

justify-content: center;

text-align: center;

}

@media (max-width: 500px) {

.container {

height: 500px;

width: 400px;

}

.container > h1 {

font-size: 40px;

}

.container > button {

width: 40%;

height: 8%;

}

}

@media (max-width: 420px) {

.container {

height: 450px;

width: 300px;

}

.container > h1 {

font-size: 30px;

}

.container > .hading,

.container > input {

margin-left: 45px;

}

#note {

font-size: 15px;

}

.container > button {

font-size: 20px;

}

}

@media (max-width: 350px) {

.container {

height: 450px;

width: 250px;

}

.container > h1 {

font-size: 30px;

}

.container > .hading,

.container > input {

margin-left: 35px;

}

#result {

font-size: 15px;

}

.container > button {

font-size: 15px;

width: 40%;

}

}

**main.js:**

function cal() {

let h = document.getElementById("hinp").value;

let w = document.getElementById("winp").value;

let r = document.getElementById("result");

if (h === "" || w === "") {

r.innerHTML = "Please enter values for height and weight.";

} else if (isNaN(h) || isNaN(w)) {

r.innerHTML = "Please enter valid values for height and weight.";

} else {

let bmi = w / (((h / 100) \* h) / 100);

let total = bmi.toFixed(2);

let result = (r.innerHTML = "Your BMI is " + total);

}

}

# Output:

# 

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| **Problem Understanding**  **(5)** | **Implementation & Output**  **(5)** | **Time Management**  **(5)** | **Viva (5)** | **Total (20)** |
|  |  |  |  |  |

**Result:**

Thus, the BMI Calculator using HTML,CSS and JavaScript was created and the output was verified.