

## **ASSIGNMENT-14**

**Name** :METTUSLEEVA VARSHITH

**Enrollment No** : 2403A51289

**Assignment No** :14

## TASK DESCRIPTION:

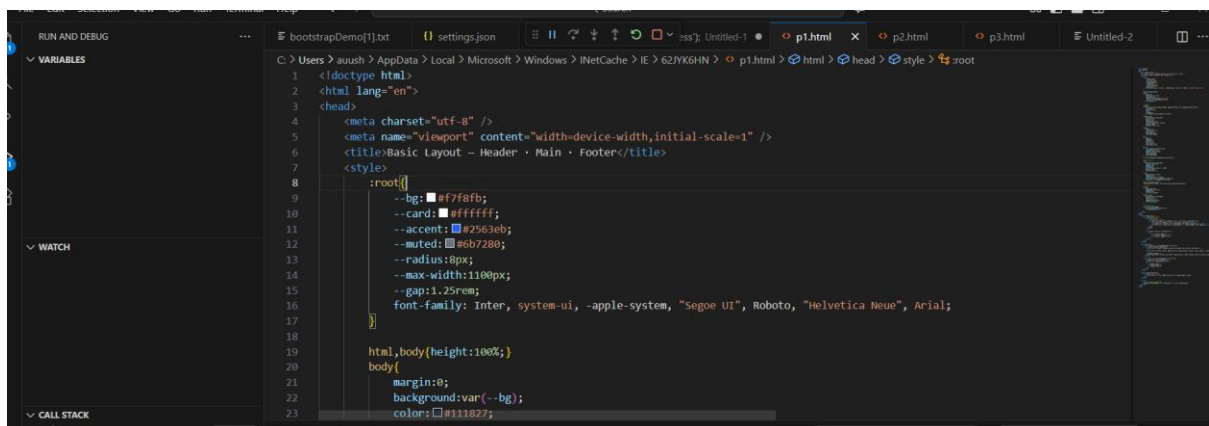
Design a basic web page layout with a header, main content area, and footer using HTML and CSS.

- Use AI to assist in generating responsive CSS for different screen sizes.
- Ensure the layout is clean and visually organized.

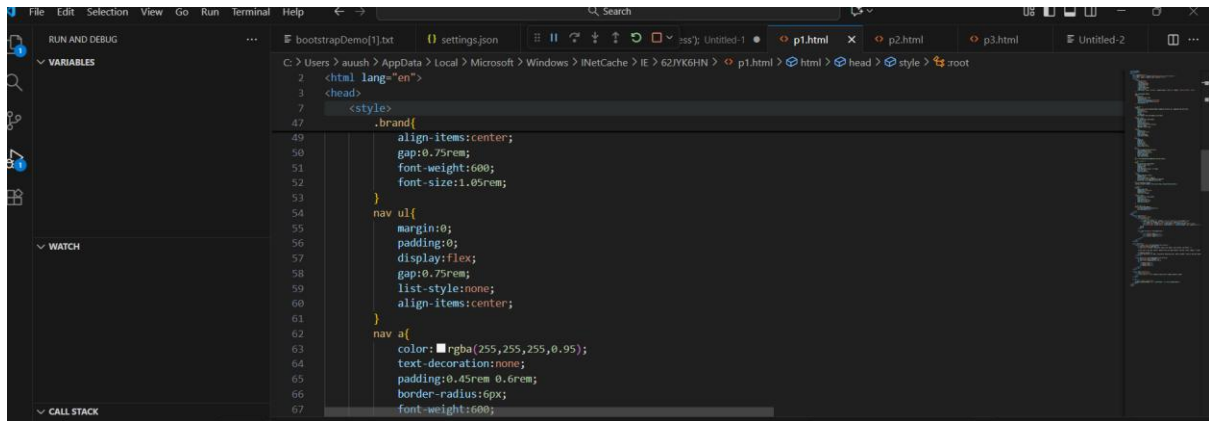
## PROMPT:

Design a basic **responsive** web page layout with a header, main content area, and footer using HTML and CSS.

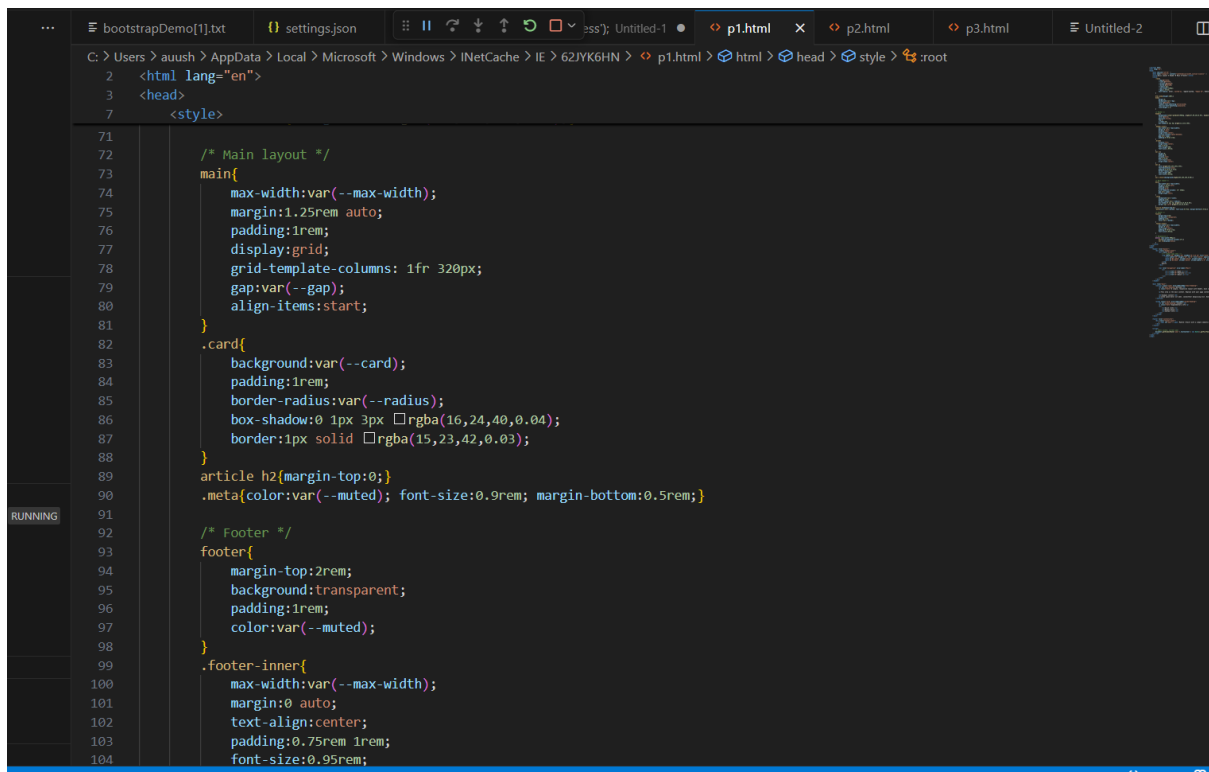
## Code:



```
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="viewport" content="width=device-width,initial-scale=1" />
6   <title>Basic Layout - Header - Main - Footer</title>
7   <style>
8     :root{
9       --bg:#f7fafb;
10      --card:#ffffff;
11      --accent:#2563eb;
12      --muted:#6b7280;
13      --radius:8px;
14      --max-width:1100px;
15      --gap:1.25rem;
16      font-family: Inter, system-ui, -apple-system, "Segoe UI", Roboto, "Helvetica Neue", Arial;
17    }
18
19    html,body{height:100%;}
20    body{
21      margin:0;
22      background:var(--bg);
23      color:var(--muted);
```

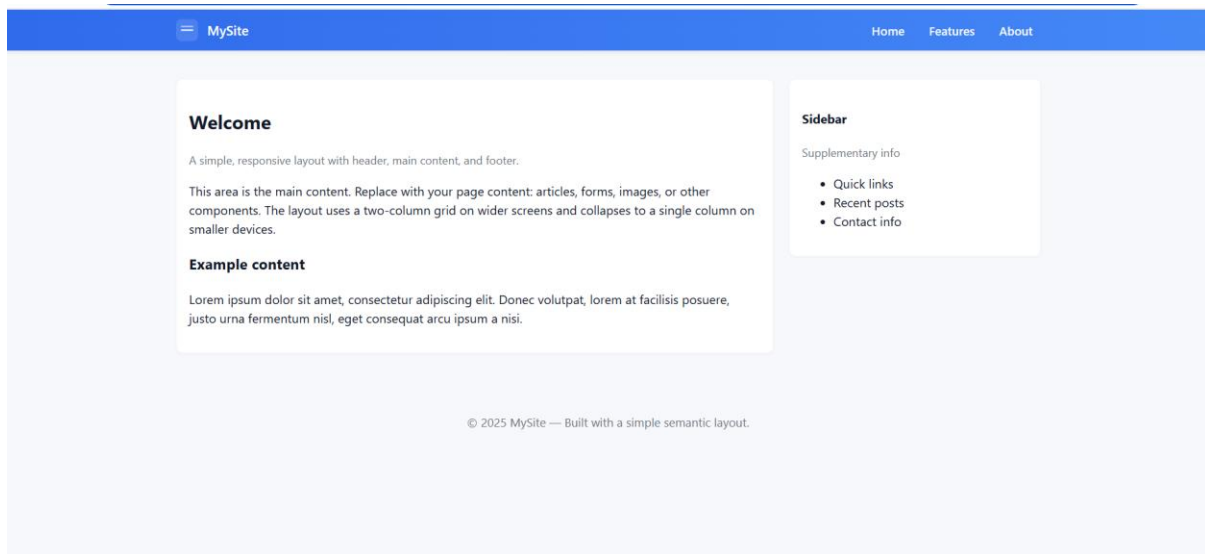


```
bootstrapDemo[1].txt | settings.json | p1.html | p2.html | p3.html | Untitled-2
C:\Users\auush\AppData\Local\Microsoft\Windows\INetCache\IE\62JYK6HN\p1.html>html>head>style>.root
2 <html lang="en">
3 <head>
7 <style>
47 .brand{
48     align-items:center;
49     gap:0.75rem;
50     font-weight:600;
51     font-size:1.05rem;
52 }
53 nav ul{
54     margin:0;
55     padding:0;
56     display:flex;
57     gap:0.75rem;
58     list-style:none;
59     align-items:center;
60 }
61 nav a{
62     color: rgba(255,255,255,0.95);
63     text-decoration:none;
64     padding:0.45rem 0.6rem;
65     border-radius:6px;
66     font-weight:600;
67 }
```



```
bootstrapDemo[1].txt | settings.json | p1.html | p2.html | p3.html | Untitled-2
C:\Users\auush\AppData\Local\Microsoft\Windows\INetCache\IE\62JYK6HN\p1.html>html>head>style>.root
2 <html lang="en">
3 <head>
7 <style>
71 /* Main layout */
72 main{
73     max-width:var(--max-width);
74     margin:1.25rem auto;
75     padding:1rem;
76     display:grid;
77     grid-template-columns: 1fr 320px;
78     gap:var(--gap);
79     align-items:start;
80 }
81 .card{
82     background:var(--card);
83     padding:1rem;
84     border-radius:var(--radius);
85     box-shadow:0 1px 3px rgba(16,24,40,0.04);
86     border:1px solid rgba(15,23,42,0.03);
87 }
88 article h2{margin-top:0;}
89 .meta{color:var(--muted); font-size:0.9rem; margin-bottom:0.5rem;}
90
91
92 /* Footer */
93 footer{
94     margin-top:2rem;
95     background:transparent;
96     padding:1rem;
97     color:var(--muted);
98 }
99 .footer-inner{
100     max-width:var(--max-width);
101     margin:0 auto;
102     text-align:center;
103     padding:0.75rem 1rem;
104     font-size:0.95rem;
105 }
```

OUTPUT:



## OBSERVATION:

In the given Question ,AI generated basic web page with tags like header,footer etc.

The output was expected with beautiful CSS Styling.

## TASK2 Description:

Create a button on a web page.

Use AI to generate JavaScript code that displays an alert

message when the button is clicked.

Ensure the code is clean and well-commented.

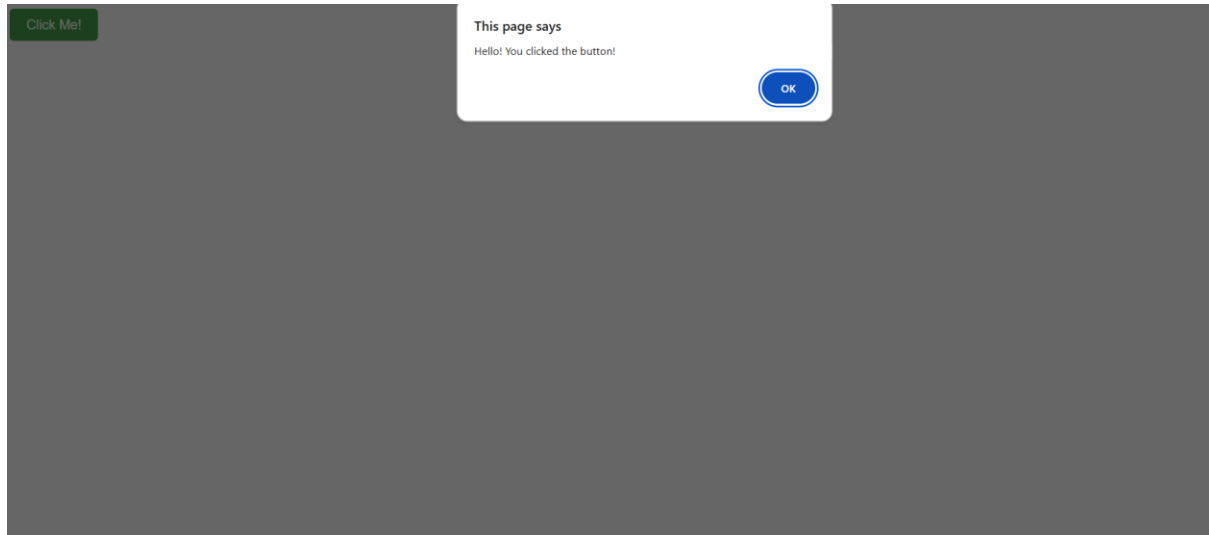
## PROMPT:

Design a web page where a buttons is clicked and displays a message like button is clicked with the help of javascript

## CODE:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <style>
5     .custom-button {
6       padding: 10px 20px;
7       background-color: #4CAF50;
8       color: white;
9       border: none;
10      border-radius: 5px;
11      cursor: pointer;
12      font-size: 16px;
13    }
14
15    .custom-button:hover {
16      background-color: #45a049;
17    }
18  </style>
19 </head>
20 <body>
21   <button class="custom-button" onclick="showMessage()">Click Me!</button>
22
23   <script>
24     function showMessage() {
25       alert("Hello! You clicked the button!");
26     }
27   </script>
28 </body>
29 </html>
```

## OUTPUT:



## OBSERVATION:

In the above code a button is made with the help of HTML, CSS and incorporated js in such a way that it displays a message like “Button is clicked” when it is clicked.

## TASK 3 Description:

**Design** a contact form with fields: Name, Email, Message.

Use AI to generate JavaScript code for form validation (e.g.,

non-empty fields, valid email format).

Add inline error messages if input is invalid.

## PROMPT:

Design a web page for a contact form where use js to validate the input values.

## CODE:

```
bootstrapDemo[1].txt  settings.json  const express = require('express'); Untitled-1  p1.html  p2.html  p3.html  X  Untitled-4
C:\Users\auush> AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > p3.html > html > head > style > body
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Contact Form</title>
7      <style>
8          body {
9              font-family: Arial, sans-serif;
10             max-width: 600px;
11             margin: 20px auto;
12             padding: 20px;
13         }
14         .form-group {
15             margin-bottom: 15px;
16         }
17         label {
18             display: block;
19             margin-bottom: 5px;
20         }
21         input, textarea {
22             width: 100%;
23             padding: 8px;
24             margin-bottom: 5px;
25         }
26         .error {
27             color: red;
28             font-size: 14px;
29             display: none;
30         }
31         button {
32             background-color: #4CAF50;
33             color: white;
34             padding: 10px 20px;
35             border: none;
36             cursor: pointer;
37         }
38     </style>
39 </head>
40 <body>
41     <div class="form-group">
42         <label>Name</label>
43         <input type="text">
44     </div>
45     <div class="form-group">
46         <label>Email</label>
47         <input type="email">
48     </div>
49     <div class="form-group">
50         <label>Message</label>
51         <textarea>
52     </div>
53     <button type="submit">Submit</button>
54 </body>
55 </html>
```

```

> Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > < p3.html > html > head > style > body
2 <html lang="en">
3 <head>
4 </head>
39 </head>
40 <body>
41 <form id="contactForm" onsubmit="return validateForm(event)">
42 <div class="form-group">
43 <label for="name">Name:</label>
44 <input type="text" id="name" name="name">
45 <span class="error" id="nameError">Name is required</span>
46 </div>
47
48 <div class="form-group">
49 <label for="email">Email:</label>
50 <input type="email" id="email" name="email">
51 <span class="error" id="emailError">Valid email is required</span>
52 </div>
53
54 <div class="form-group">
55 <label for="phone">Phone:</label>
56 <input type="tel" id="phone" name="phone">
57 <span class="error" id="phoneError">Valid phone number is required</span>
58 </div>
59
60 <div class="form-group">
61 <label for="message">Message:</label>
62 <textarea id="message" name="message" rows="4"></textarea>
63 <span class="error" id="messageError">Message is required</span>
64 </div>
65
66 <button type="submit">Submit</button>
67 </form>
68
69 <script>
70 function validateForm(event) {
71 event.preventDefault();
72 let isValid = true;

```

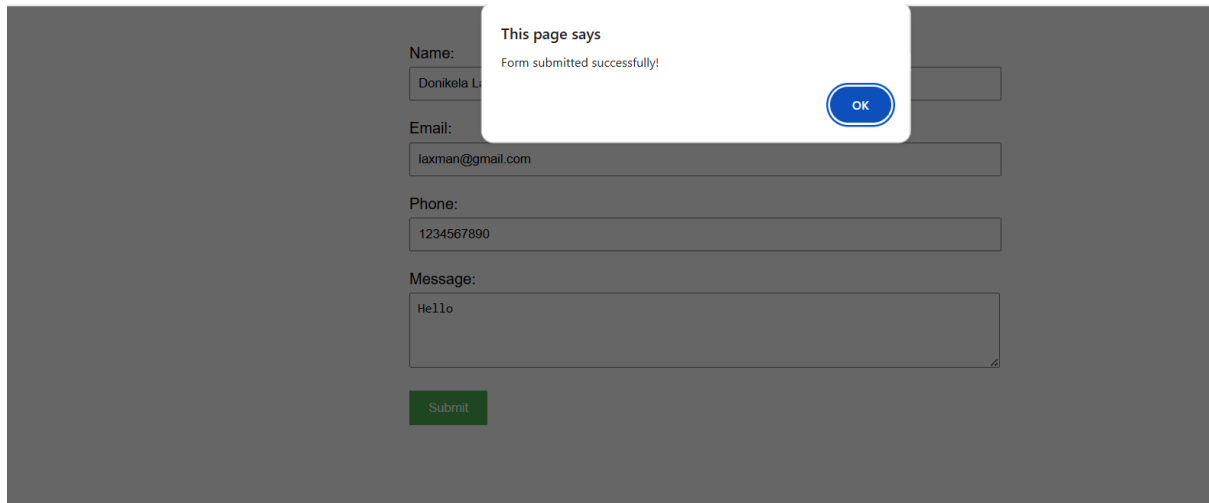
```

> Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > < p3.html > html > head > style > body
2 <html lang="en">
40 <body>
68
69 <script>
70 function validateForm(event) {
71 event.preventDefault();
72 let isValid = true;
73
74 // Reset errors
75 document.querySelectorAll('.error').forEach(error => {
76 error.style.display = 'none';
77 });
78
79 // Name validation
80 const name = document.getElementById('name').value.trim();
81 if (name === '') {
82 document.getElementById('nameError').style.display = 'block';
83 isValid = false;
84 }
85
86 // Email validation
87 const email = document.getElementById('email').value.trim();
88 const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
89 if (!emailRegex.test(email)) {
90 document.getElementById('emailError').style.display = 'block';
91 isValid = false;
92 }
93
94 // Phone validation
95 const phone = document.getElementById('phone').value.trim();
96 const phoneRegex = /^\d{10}$/;
97 if (!phoneRegex.test(phone)) {
98 document.getElementById('phoneError').style.display = 'block';
99 isValid = false;
100 }
101

```

**OUTPUT:**





The image shows a contact form on a dark gray background. The form fields are as follows:

- Name:** A text input field containing "Donikela L".
- Email:** A text input field containing "laxman@gmail.com".
- Phone:** A text input field containing "1234567890".
- Message:** A text area containing "Hello".

Below the message field is a green "Submit" button. A white modal box is overlaid on the form, displaying the message "This page says" and "Form submitted successfully!". The modal has a blue "OK" button.

## OBSERVATION:

In the above code they have created a contact form where people can approach them with the help of it. It has js to validate the form.