

## **ASSIGNMENT-14**

**Name** : Peravena Navadeep

**Enrollment No** : 2403A52019

**Assignment No** : 14

### **TASK DESCRIPTION:**

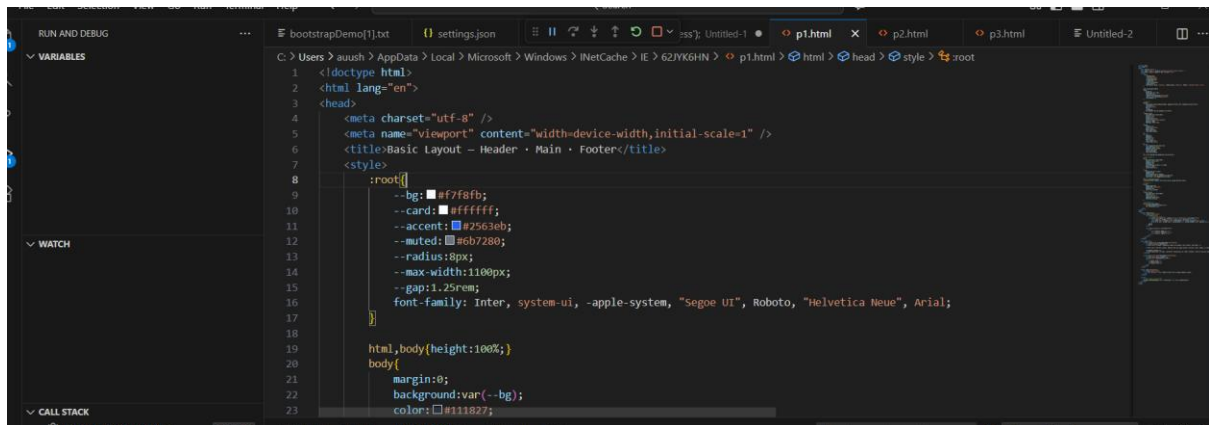
Design a basic web page layout with a header, main content area, and footer using HTML and CSS.

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

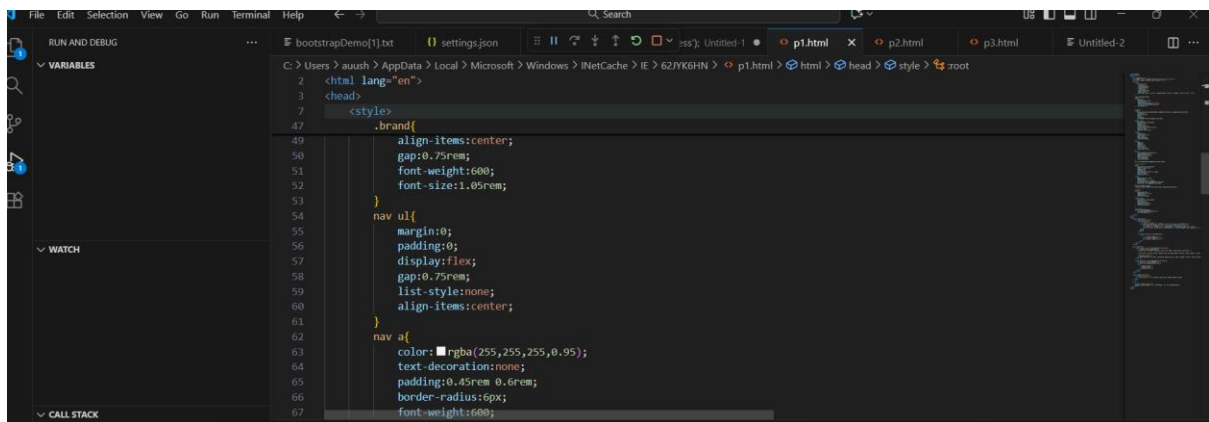
### **PROMPT:**

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

## Code:



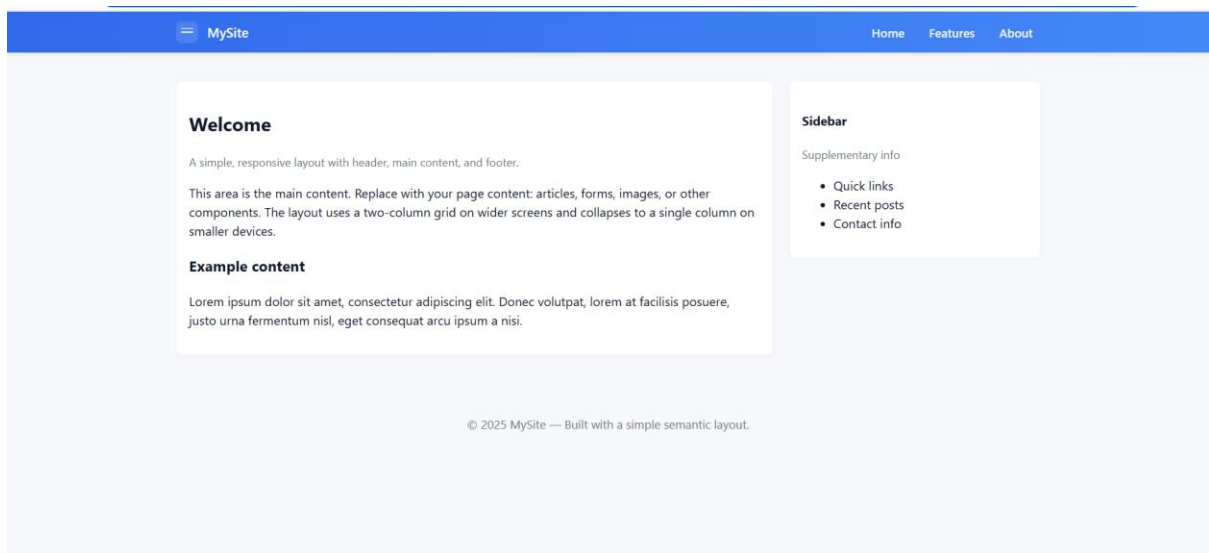
```
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="viewport" content="width=device-width,initial-scale=1" />
6   <title>Basic Layout - Header - Main - Footer</title>
7   <style>
8     :root{
9       --bg: #f7f8fb;
10      --card: #ffffff;
11      --accent: #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: #111827;
```



```
47
48
49    .brand{
50      align-items:center;
51      gap:0.75rem;
52      font-weight:600;
53      font-size:1.05rem;
54    }
55    nav ul{
56      margin:0;
57      padding:0;
58      display:flex;
59      gap:0.75rem;
60      list-style:none;
61      align-items:center;
62    }
63    nav a{
64      color: rgba(255,255,255,0.95);
65      text-decoration:none;
66      padding:0.45rem 0.6rem;
67      border-radius:6px;
68      font-weight:600;
```

```
... bootstrapDemo[1].txt settings.json ssj; Untitled-1 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
72 /* Main layout */
73 main{
74   max-width:var(--max-width);
75   margin:1.25rem auto;
76   padding:1rem;
77   display:grid;
78   grid-template-columns: 1fr 320px;
79   gap:var(--gap);
80   align-items:start;
81 }
82 .card{
83   background:var(--card);
84   padding:1rem;
85   border-radius:var(--radius);
86   box-shadow:0 1px 3px 0 rgba(16,24,40,0.04);
87   border:1px solid rgba(15,23,42,0.03);
88 }
89 article h2{margin-top:0;}
90 .meta{color:var(--muted); font-size:0.9rem; margin-bottom:0.5rem;}
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;
```

# 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.

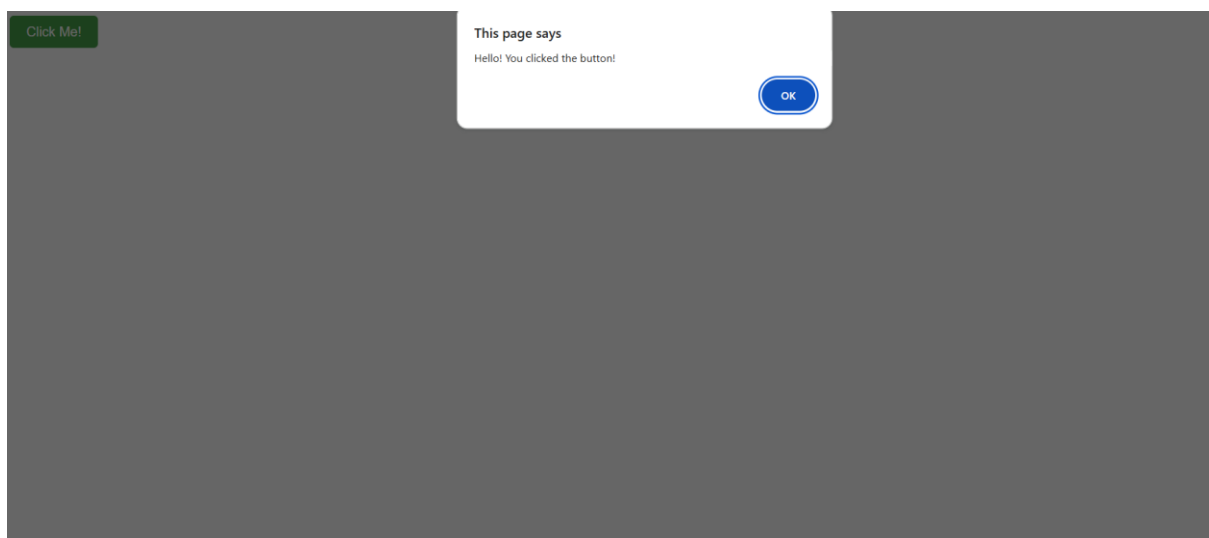
### **PROMPT:**

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>
```

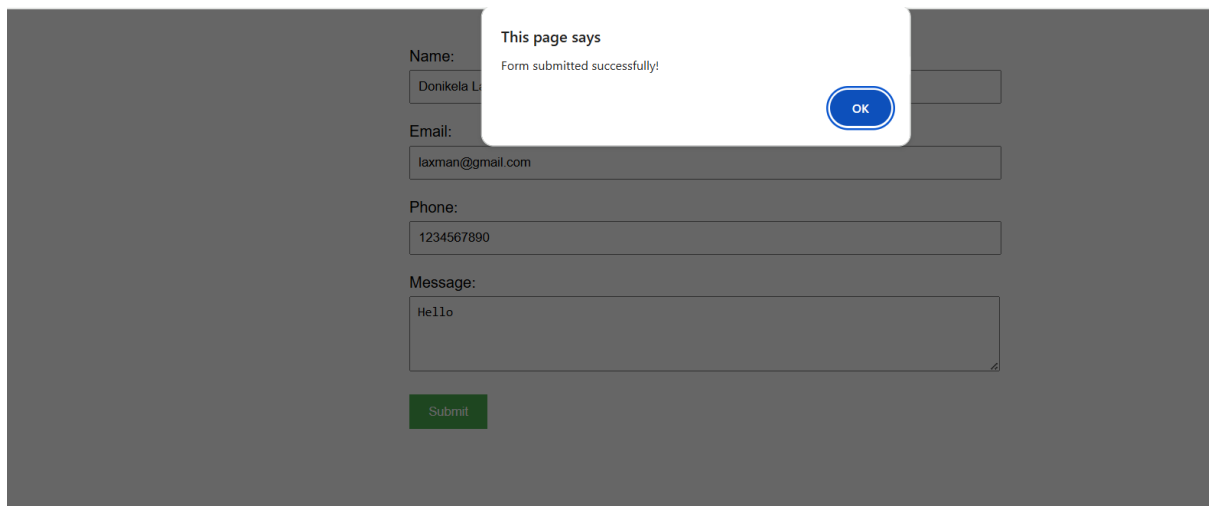
```
C:\Users\auush> AppData\Local\Microsoft\Windows\INetCache\IE\62JYK6HN> p3.html> html> head> style> body
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Contact Form</title>
7   <style>
8     body {
9       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   <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;
73     }
74   </script>
75 </body>
76 </html>
```

```

> 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 screenshot shows a web form with the following fields and values:

- Name:** Donikela L
- Email:** laxman@gmail.com
- Phone:** 1234567890
- Message:** Hello

A green "Submit" button is at the bottom. A white modal box with a blue border is overlaid on the form, displaying the message "This page says Form submitted successfully!" with an "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.