

# **ASSIGNMENT-14**

---

**Name** :Donikela Laxman

**Enrollment No** : 2403A51283

**Assignment No** :14

---

## TASK DESCRIPTION:

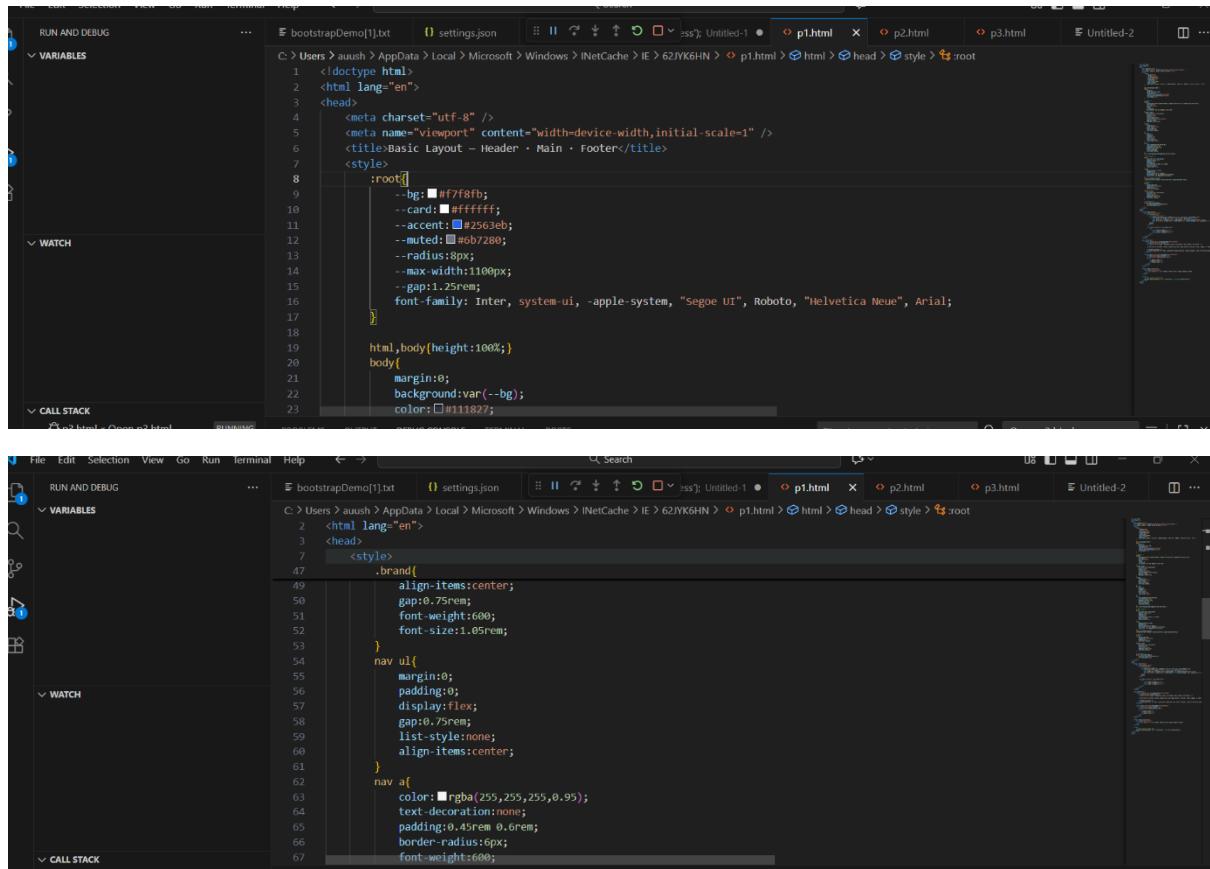
Design a basic web page layout with a header, main content area, and footer using HTML and CSS.

- 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:



The image shows two side-by-side screenshots of a code editor interface, likely Visual Studio Code, displaying CSS code for a responsive web page layout. Both screenshots show the same file structure and code content, with minor differences in the scroll position.

The code is organized into two main sections:

```
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: #607280;
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;
}
```

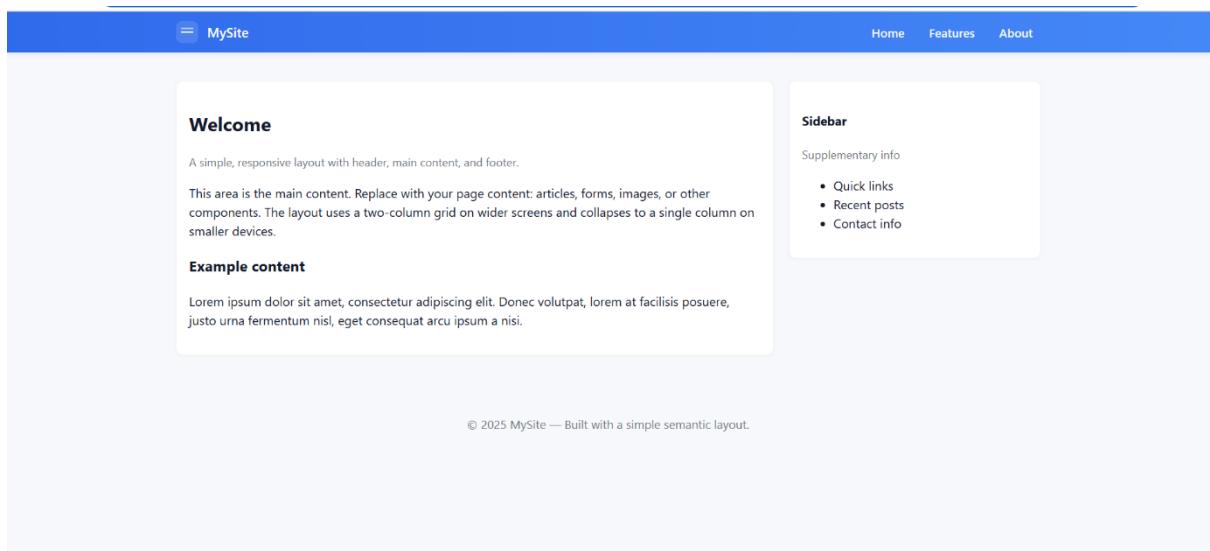
The first screenshot has the cursor positioned at line 8, while the second has it at line 47.

```

...
bootstrapDemo[1].txt settings.json 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 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.

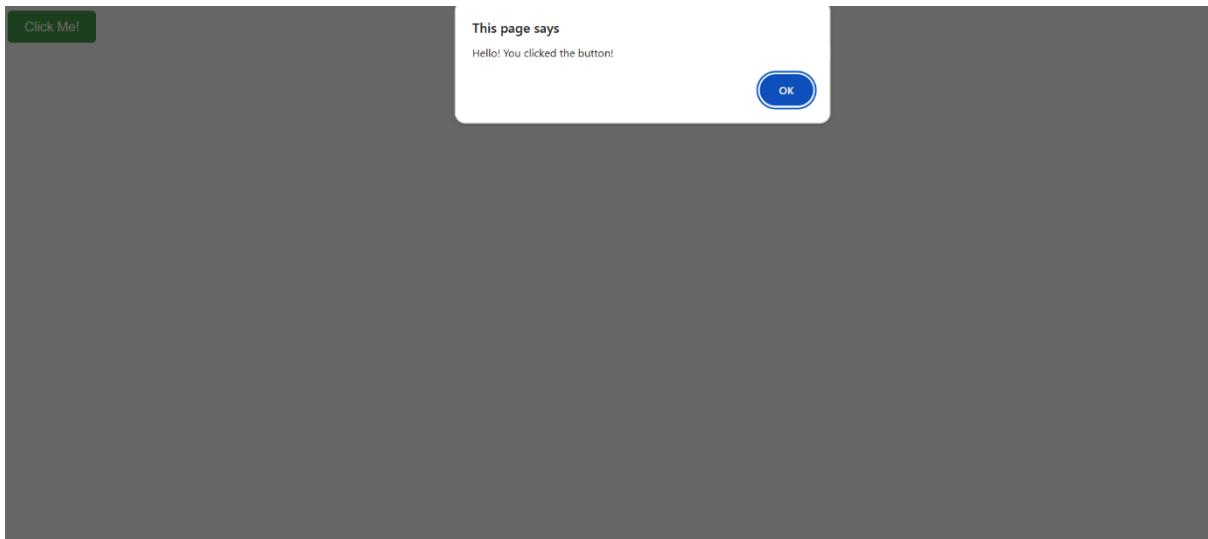
## **PROMPT:**

Design a web page where a button 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 Untitled-1  
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>
```

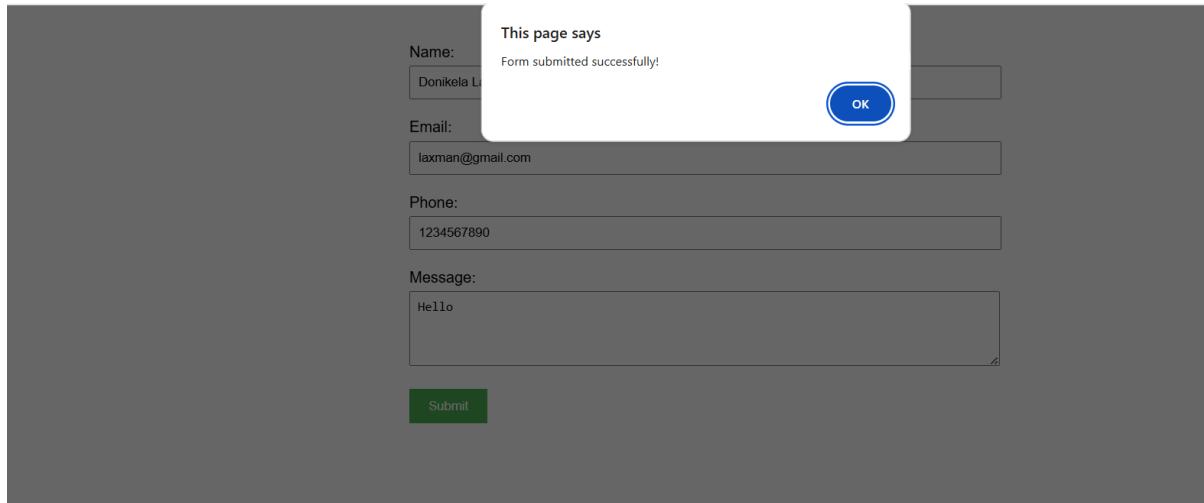
```
2 > Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > p3.html > html > head > style > body
3   <html lang="en">
4     <head>
5       <!-- style -->
6     </head>
7     <body>
8       <form id="contactForm" onsubmit="return validateForm(event)">
9         <div class="form-group">
10           <label for="name">Name:</label>
11           <input type="text" id="name" name="name">
12           <span class="error" id="nameError">Name is required</span>
13         </div>
14
15         <div class="form-group">
16           <label for="email">Email:</label>
17           <input type="email" id="email" name="email">
18           <span class="error" id="emailError">Valid email is required</span>
19         </div>
20
21         <div class="form-group">
22           <label for="phone">Phone:</label>
23           <input type="tel" id="phone" name="phone">
24           <span class="error" id="phoneError">Valid phone number is required</span>
25         </div>
26
27         <div class="form-group">
28           <label for="message">Message:</label>
29           <textarea id="message" name="message" rows="4"></textarea>
30           <span class="error" id="messageError">Message is required</span>
31         </div>
32
33         <button type="submit">Submit</button>
34     </form>
35
36     <script>
37       function validateForm(event) {
38         event.preventDefault();
39         let isValid = true;
40
41         // Validate Name
42         if (!isValid) {
43           const nameError = document.getElementById('nameError');
44           nameError.textContent = 'Name is required';
45         }
46
47         // Validate Email
48         if (!isValid) {
49           const emailError = document.getElementById('emailError');
50           emailError.textContent = 'Valid email is required';
51         }
52
53         // Validate Phone
54         if (!isValid) {
55           const phoneError = document.getElementById('phoneError');
56           phoneError.textContent = 'Valid phone number is required';
57         }
58
59         // Validate Message
60         if (!isValid) {
61           const messageError = document.getElementById('messageError');
62           messageError.textContent = 'Message is required';
63         }
64
65         return isValid;
66       }
67     </script>
68
69   </body>
70 </html>
```

```

: > Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > p3.html > html > head > style > body
2   <html lang="en">
40  <body>
08
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;
101

```

## OUTPUT:



## 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.