

ASSIGNMENT-14

Name :Peravena Navadeep

Enrollment No : 2403A52019

Assignment No :14

TASK DESCRIPTION:

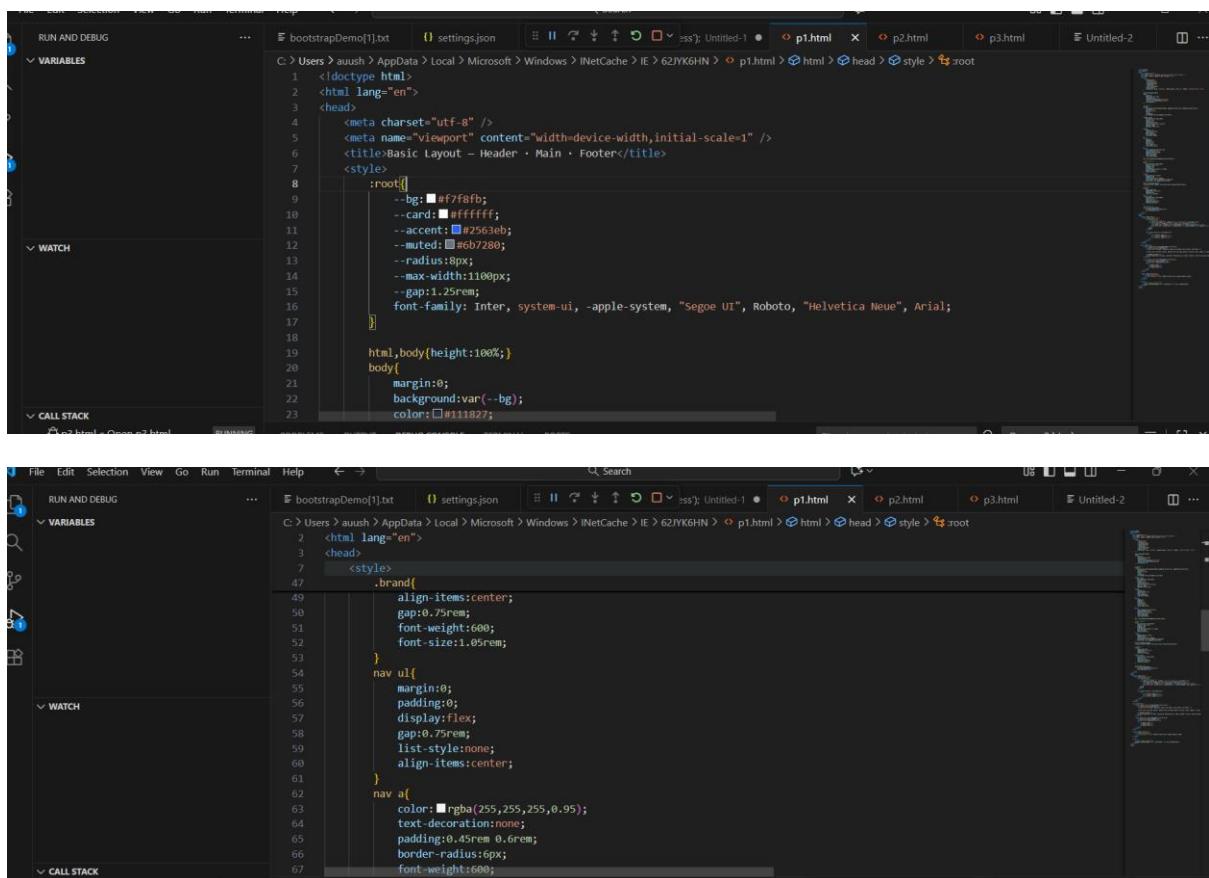
Design a basic web page layout with a header, main content area, and footer using HTML and CSS.

- 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.

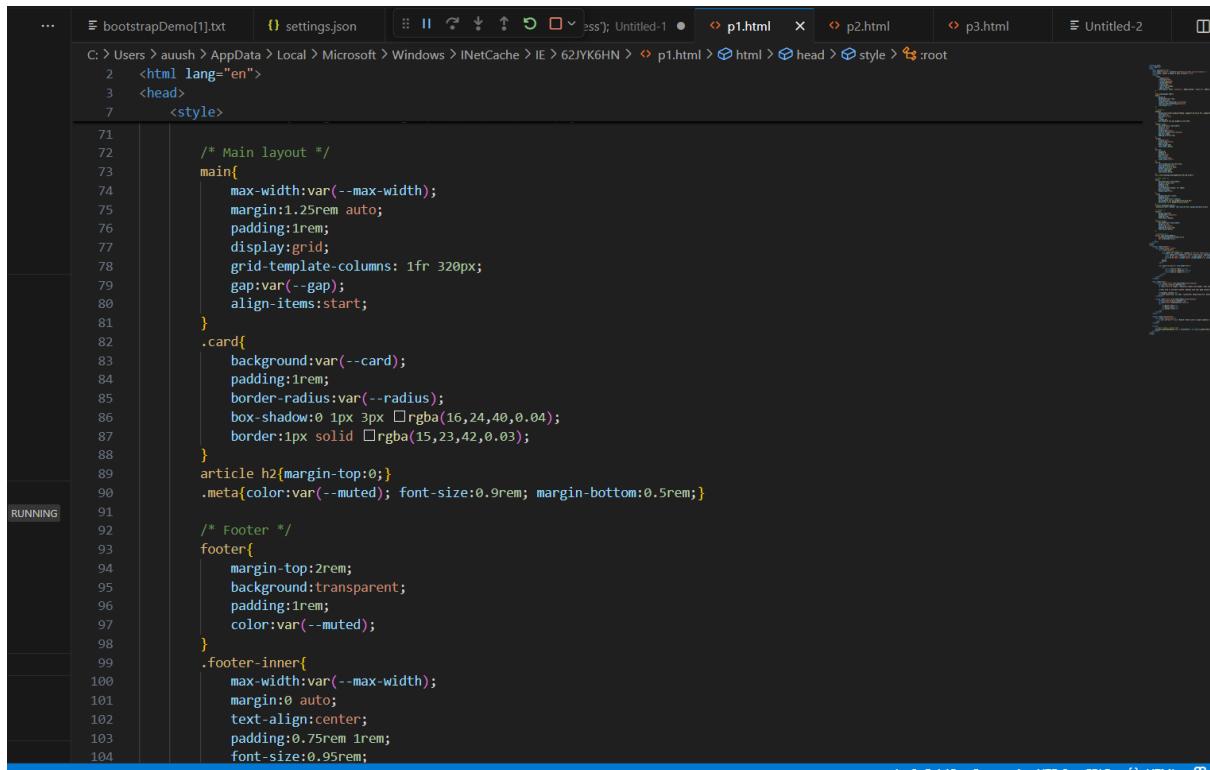
Code:



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 panels have a dark theme and show the same code structure with slight differences in the scroll position.

```
C:\> Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE_62JYK6HN > p1.html > html > head > style > root
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:#fff8fb;
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;
24   }
```

```
C:\> Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE_62JYK6HN > p1.html > html > head > style > .brand
2 <html lang="en">
3 <head>
4   <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     }
```

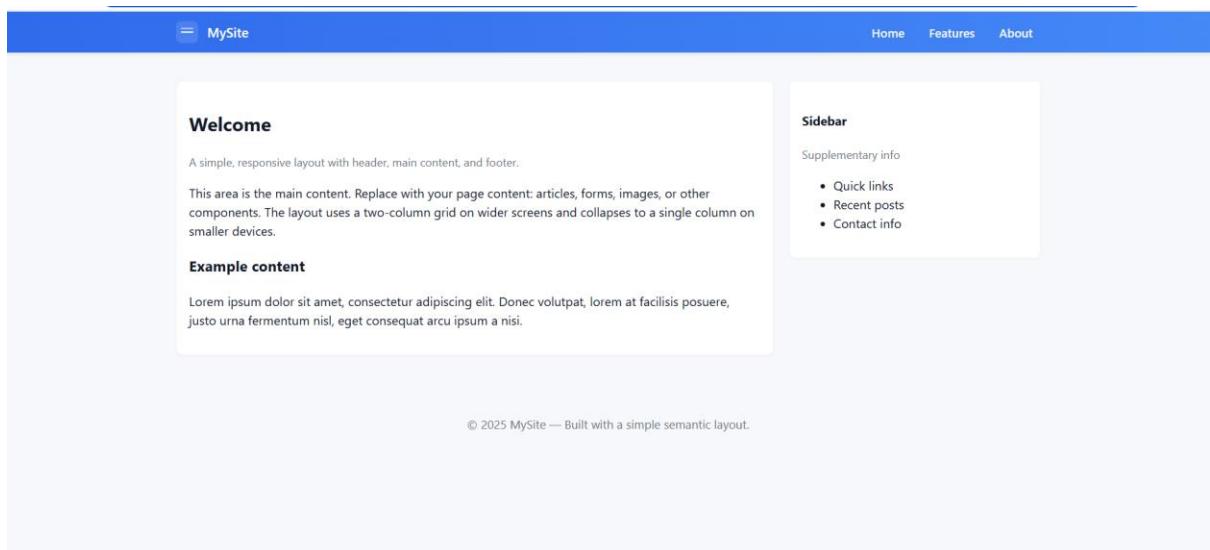


```

...
bootstrapDemo[1].txt settings.json 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>
  4       <style>
  5
  6         /* Main layout */
  7         main{
  8           max-width:var(--max-width);
  9           margin:1.25rem auto;
 10           padding:1rem;
 11           display:grid;
 12           grid-template-columns: 1fr 320px;
 13           gap:var(--gap);
 14           align-items:start;
 15         }
 16         .card{
 17           background:var(--card);
 18           padding:1rem;
 19           border-radius:var(--radius);
 20           box-shadow:0 1px 3px rgba(16,24,40,0.04);
 21           border:1px solid rgba(15,23,42,0.03);
 22         }
 23         article h2{margin-top:0;}
 24         .meta{color:var(--muted); font-size:0.9rem; margin-bottom:0.5rem;}
 25
 26         /* Footer */
 27         footer{
 28           margin-top:2rem;
 29           background:transparent;
 30           padding:1rem;
 31           color:var(--muted);
 32         }
 33         .footer-inner{
 34           max-width:var(--max-width);
 35           margin:0 auto;
 36           text-align:center;
 37           padding:0.75rem 1rem;
 38           font-size:0.95rem;
 39
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```

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.

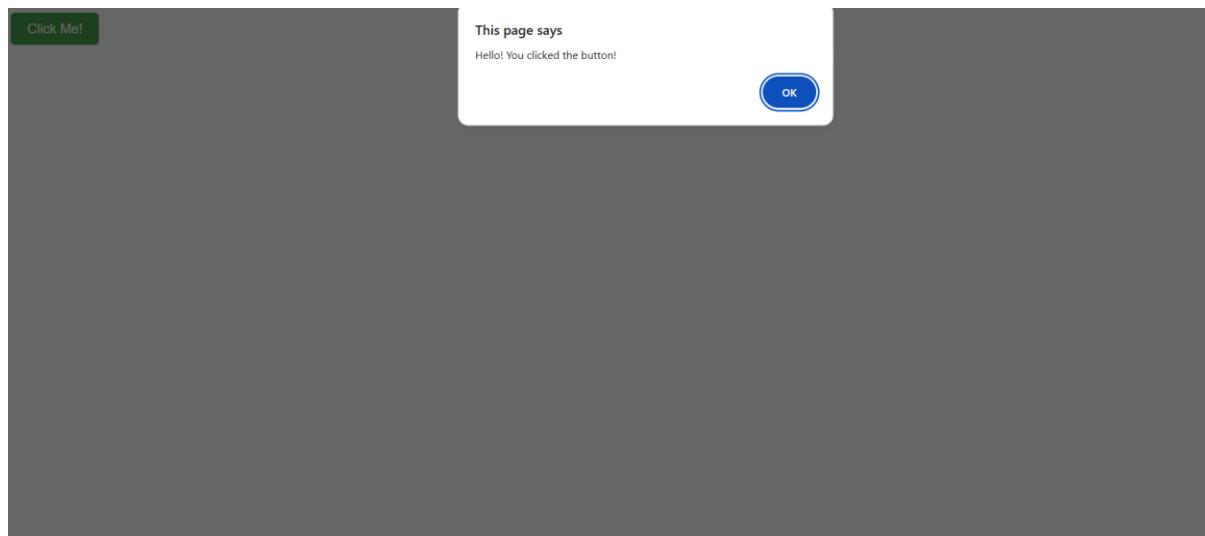
PROMPT:

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

CODE:

```
> Users > audush > AppData > Local > Microsoft > Windows > iNetCache > IE > 82JYK8HN > p2.html > html > head > style
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>
```

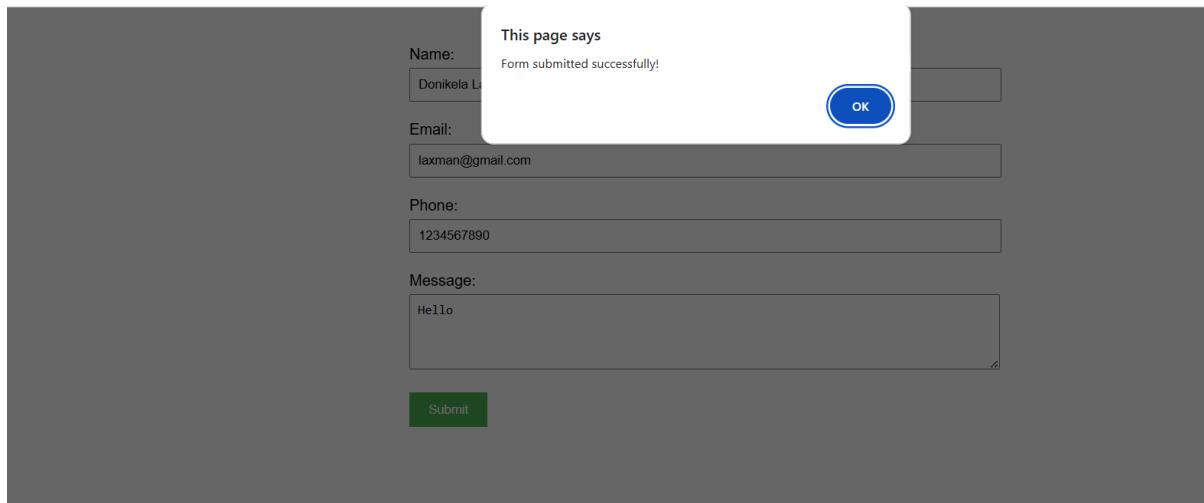
```
Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > p3.html > html > head > style > body  
1  <html lang="en">  
2  <head>  
3  <style>  
4  </style>  
5  </head>  
6  <body>  
7    <form id="contactForm" onsubmit="return validateForm(event)">  
8      <div class="form-group">  
9        <label for="name">Name:</label>  
10       <input type="text" id="name" name="name">  
11       <span class="error" id="nameError">Name is required</span>  
12     </div>  
13  
14     <div class="form-group">  
15       <label for="email">Email:</label>  
16       <input type="email" id="email" name="email">  
17       <span class="error" id="emailError">Valid email is required</span>  
18     </div>  
19  
20     <div class="form-group">  
21       <label for="phone">Phone:</label>  
22       <input type="tel" id="phone" name="phone">  
23       <span class="error" id="phoneError">Valid phone number is required</span>  
24     </div>  
25  
26     <div class="form-group">  
27       <label for="message">Message:</label>  
28       <textarea id="message" name="message" rows="4"></textarea>  
29       <span class="error" id="messageError">Message is required</span>  
30     </div>  
31  
32     <button type="submit">Submit</button>  
33   </form>  
34  
35   <script>  
36     function validateForm(event) {  
37       event.preventDefault();  
38       let isValid = true;  
39  
40       // Validate Name  
41       if (!isValid) {  
42         document.getElementById("nameError").style.display = "block";  
43       } else {  
44         document.getElementById("nameError").style.display = "none";  
45       }  
46  
47       // Validate Email  
48       if (!isValid) {  
49         document.getElementById("emailError").style.display = "block";  
50       } else {  
51         document.getElementById("emailError").style.display = "none";  
52       }  
53  
54       // Validate Phone  
55       if (!isValid) {  
56         document.getElementById("phoneError").style.display = "block";  
57       } else {  
58         document.getElementById("phoneError").style.display = "none";  
59       }  
60  
61       // Validate Message  
62       if (!isValid) {  
63         document.getElementById("messageError").style.display = "block";  
64       } else {  
65         document.getElementById("messageError").style.display = "none";  
66       }  
67  
68       // If all fields are valid, submit the form  
69       if (isValid) {  
70         event.preventDefault();  
71         event.stopPropagation();  
72         document.getElementById("contactForm").submit();  
73       }  
74     }  
75   </script>
```

```

: > Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > p3.html > html > head > style > body
1 <html lang="en">
2   <body>
3
4     <script>
5       function validateForm(event) {
6         event.preventDefault();
7         let isValid = true;
8
9         // Reset errors
10        document.querySelectorAll('.error').forEach(error => {
11          error.style.display = 'none';
12        });
13
14        // Name validation
15        const name = document.getElementById('name').value.trim();
16        if (name === '') {
17          document.getElementById('nameError').style.display = 'block';
18          isValid = false;
19        }
20
21        // Email validation
22        const email = document.getElementById('email').value.trim();
23        const emailRegex = /^[^@\s]+@[^\s]+\.[^\s]+$/;
24        if (!emailRegex.test(email)) {
25          document.getElementById('emailError').style.display = 'block';
26          isValid = false;
27        }
28
29        // Phone validation
30        const phone = document.getElementById('phone').value.trim();
31        const phoneRegex = /^\d{10}$/;
32        if (!phoneRegex.test(phone)) {
33          document.getElementById('phoneError').style.display = 'block';
34          isValid = false;
35        }
36
37      }
38
39    </script>
40  </body>
41
42</html>

```

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.