

## **ASSIGNMENT-14**

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**Assignment No** :14

## TASK DESCRIPTION:

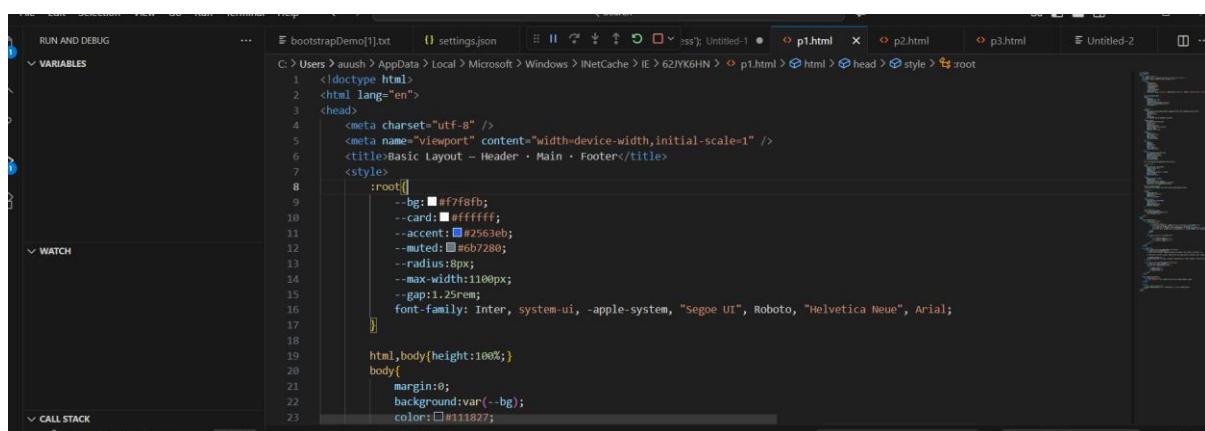
Design a basic web page layout with a header, main content area, and footer using HTML and CSS.

- 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 screenshot shows a code editor interface with the following details:

- File Explorer:** Shows files p1.html, p2.html, p3.html, and Untitled-2.
- VARIABLES:** A section showing variables like `--root`, `--bg`, `--card`, `--accent`, `--muted`, `--radius`, `--max-width`, `--gap`, and `--font-family`.
- WATCH:** An empty section.
- CALL STACK:** An empty section.
- Code Area:** Displays the following 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{[&gt;
9         --bg:#f7f8fb;
10        --card:#ffffff;
11        --accent:#2553eb;
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,</style>
17      }
18      html,body{height:100%;}
19      body{
20        margin:0;
21        background:var(--bg);
22        color:#111827;
23      }
```

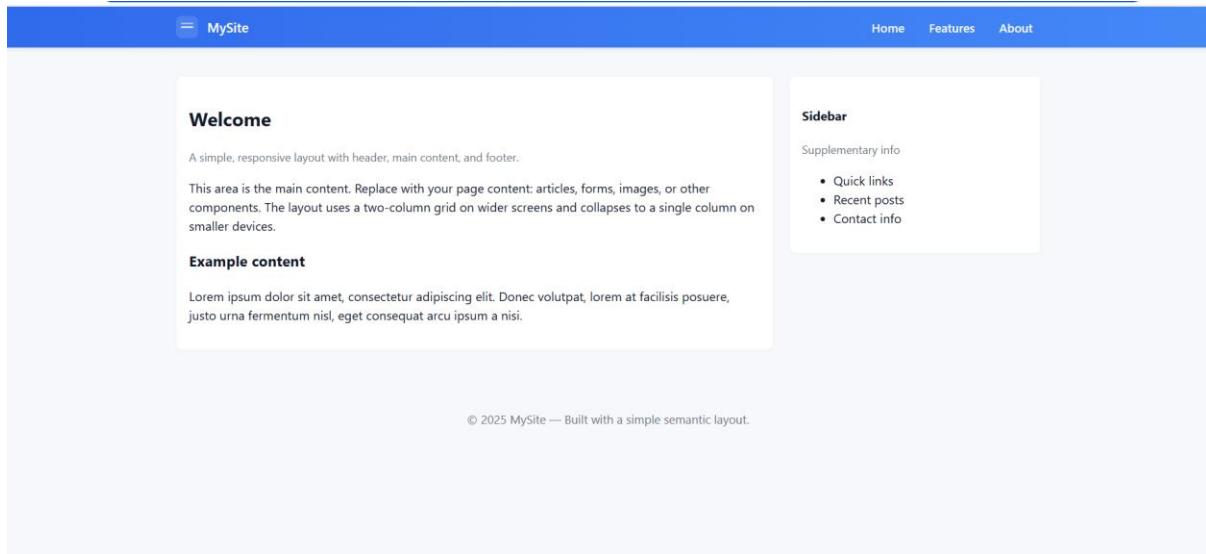
A screenshot of the Visual Studio Code interface in dark mode. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar. Below the menu is a toolbar with icons for file operations like Open, Save, and Find. The main workspace shows several tabs: bootstrapDemo[1].txt, settings.json, p1.html, p2.html, p3.html, and Untitled-2. The code editor displays a portion of a CSS file:

```
1 <html lang="en">
2   <head>
3     <style>
4       .brand{
5         align-items:center;
6         gap:0.75rem;
7         font-weight:600;
8         font-size:1.05rem;
9       }
10      nav ul{
11        margin:0;
12        padding:0;
13        display:flex;
14        gap:0.75rem;
15        list-style:none;
16        align-items:center;
17      }
18      nav a{
19        color:#rgba(255,255,255,0.95);
20        text-decoration:none;
21        padding:0.45rem 0.6rem;
22        border-radius:0px;
23        font-weight:600;
24      }
25    </style>
```

A screenshot of the Visual Studio Code interface in dark mode, focusing on the code editor. The top menu bar and toolbar are visible. The code editor contains a large block of CSS code, likely from a bootstrap demo, spanning from line 2 to 104. The code includes various CSS properties for layout, styling, and typography.

```
2   <html lang="en">
3     <head>
4       <style>
5         /* Main layout */
6         main{
7           max-width:var(--max-width);
8           margin:1.25rem auto;
9           padding:1rem;
10          display:grid;
11          grid-template-columns: 1fr 320px;
12          gap:var(--gap);
13          align-items:start;
14        }
15        .card{
16          background:var(--card);
17          padding:1rem;
18          border-radius:var(--radius);
19          box-shadow:0 1px 3px #rgba(16,24,40,0.04);
20          border:1px solid #rgba(15,23,42,0.03);
21        }
22        article h2{margin-top:0;}
23        .meta{color:var(--muted); font-size:0.9rem; margin-bottom:0.5rem;}
24
25        /* Footer */
26        footer{
27          margin-top:2rem;
28          background:transparent;
29          padding:1rem;
30          color:var(--muted);
31        }
32        .footer-inner{
33          max-width:var(--max-width);
34          margin:0 auto;
35          text-align:center;
36          padding:0.75rem 1rem;
37          font-size:0.95rem;
38        }
39
40        /* Footer links */
41        .link{
42          color:var(--muted);
43          font-size:0.9rem;
44          margin-bottom:0.5rem;
45        }
46        .link a{
47          color:var(--muted);
48        }
49
50        /* Footer social media */
51        .social{
52          margin-top:2rem;
53          text-align:center;
54        }
55        .social a{
56          color:var(--muted);
57          font-size:1.2rem;
58          margin:0 0.5rem;
59        }
60
61        /* Footer footer */
62        .copyright{
63          margin-top:2rem;
64          text-align:center;
65        }
66        .copyright p{
67          font-size:0.8rem;
68        }
69
70        /* Footer footer footer */
71        .bottom{
72          margin-top:2rem;
73          text-align:center;
74        }
75        .bottom p{
76          font-size:0.8rem;
77        }
78
79        /* Footer footer footer footer */
80        .bottom{
81          margin-top:2rem;
82          text-align:center;
83        }
84        .bottom p{
85          font-size:0.8rem;
86        }
87
88        /* Footer footer footer footer footer */
89        .bottom{
90          margin-top:2rem;
91          text-align:center;
92        }
93        .bottom p{
94          font-size:0.8rem;
95        }
96
97        /* Footer footer footer footer footer footer */
98        .bottom{
99          margin-top:2rem;
100         text-align:center;
101        }
102        .bottom p{
103          font-size:0.8rem;
104        }
```

## 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.

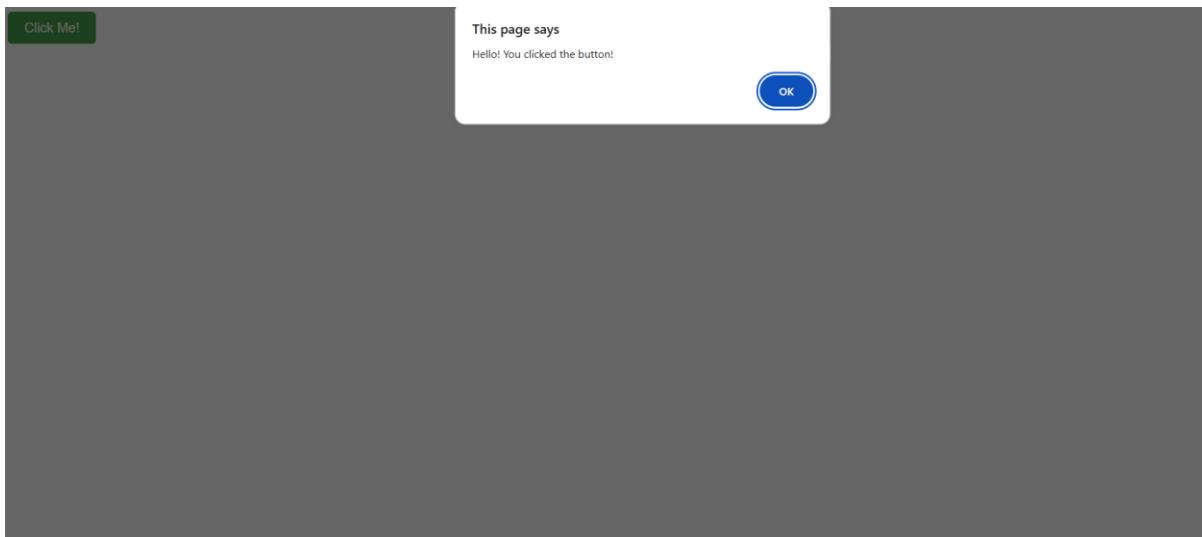
## PROMPT:

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

## CODE:

```
> Users > adush > AppData > Local > Microsoft > Windows > INetCache > IE > 6ZJYKoHN > p2.htm > 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.,

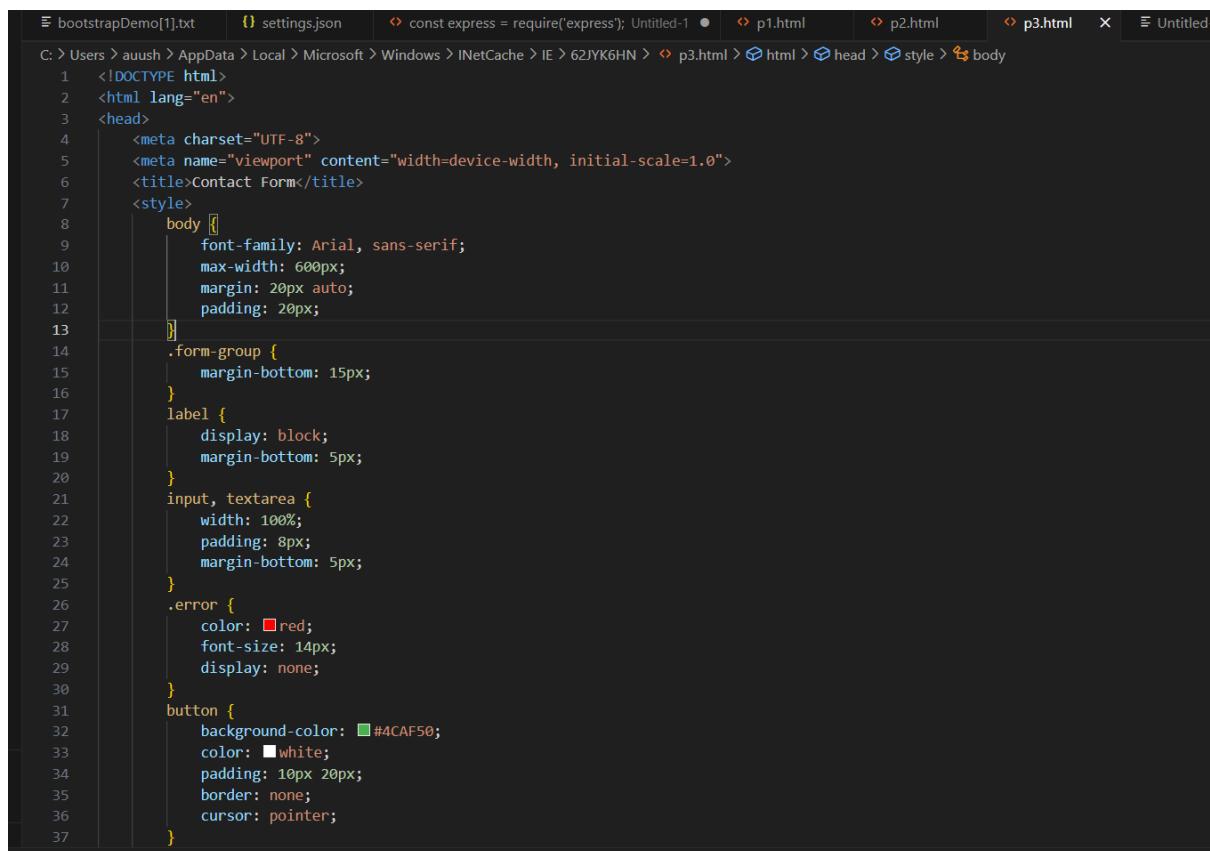
non-empty fields, valid email format).

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:



The screenshot shows a code editor window with a dark theme. The file is named 'bootstrapDemo[1].txt' and contains CSS code for a contact form. The code includes styles for the body, form-group, label, input/textarea, .error class, and a button. It uses Bootstrap classes like .form-group and .error to handle validation. The code editor also shows tabs for settings.json, express.js, p1.html, p2.html, p3.html, and Untitled.

```
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         }

```

```
:> Users > auush > AppData > Local > Microsoft > Windows > INetCache > IE > 62JYK6HN > p3.html > html > head > style > body
1  <html lang="en">
2  <head>
3      </style>
4  </head>
5  <body>
6      <form id="contactForm" onsubmit="return validateForm(event)">
7          <div class="form-group">
8              <label for="name">Name:</label>
9              <input type="text" id="name" name="name">
10             <span class="error" id="nameError">Name is required</span>
11         </div>
12
13         <div class="form-group">
14             <label for="email">Email:</label>
15             <input type="email" id="email" name="email">
16             <span class="error" id="emailError">Valid email is required</span>
17         </div>
18
19         <div class="form-group">
20             <label for="phone">Phone:</label>
21             <input type="tel" id="phone" name="phone">
22             <span class="error" id="phoneError">Valid phone number is required</span>
23         </div>
24
25         <div class="form-group">
26             <label for="message">Message:</label>
27             <textarea id="message" name="message" rows="4"></textarea>
28             <span class="error" id="messageError">Message is required</span>
29         </div>
30
31         <button type="submit">Submit</button>
32     </form>
33
34     <script>
35         function validateForm(event) {
36             event.preventDefault();
37             let isValid = true;
38
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```

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

## OUTPUT:

The screenshot shows a contact form with fields for Name, Email, Phone, and Message. The Name field contains "Donikela Laxman". The Email field contains "laxman@gmail.com". The Phone field contains "1234567890". The Message field contains "Hello". Below the form is a green "Submit" button. A modal dialog box is overlaid on the page, containing the text "This page says" and "Form submitted successfully!". An "OK" button is at the bottom right of the modal.

Name:  
Donikela Laxman

Email:  
laxman@gmail.com

Phone:  
1234567890

Message:  
Hello

Submit

This page says  
Form submitted successfully!

OK

## 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.