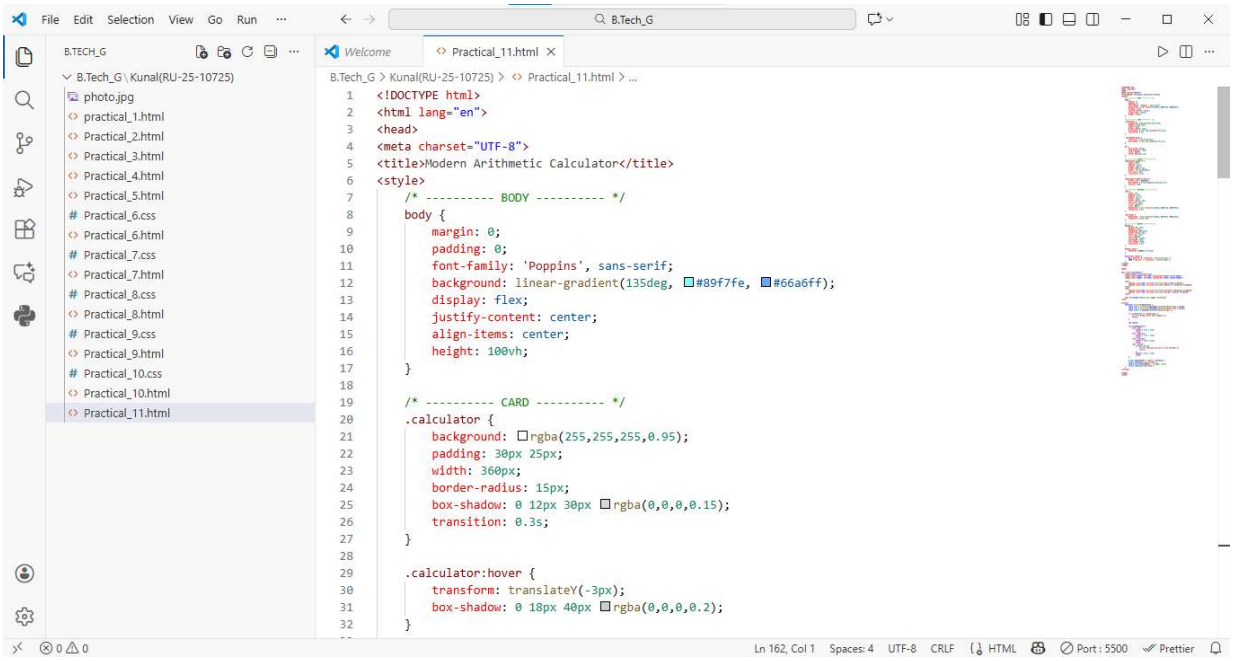
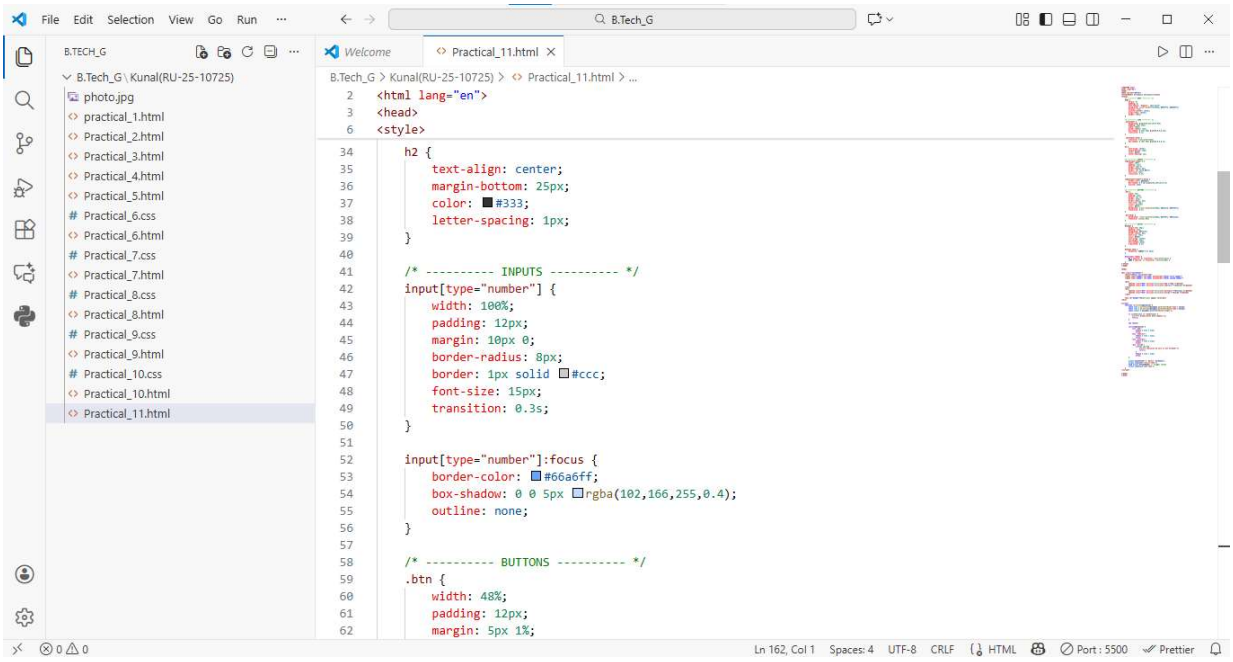
11. Create a JavaScript-enabled web page that performs basic arithmetic operations using input from users.



```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Modern Arithmetic Calculator</title>
<style>
    /* ---------- BODY ---------- */
    body {
        margin: 0;
        padding: 0;
        font-family: 'Poppins', sans-serif;
        background: linear-gradient(135deg, #89f7fe, #66a6ff);
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
    }

    /* ---------- CARD ---------- */
    .calculator {
        background: rgba(255,255,255,0.95);
        padding: 30px 25px;
        width: 360px;
        border-radius: 15px;
        box-shadow: 0 12px 30px rgba(0,0,0,0.15);
        transition: 0.3s;
    }

    .calculator:hover {
        transform: translateY(-3px);
        box-shadow: 0 18px 40px rgba(0,0,0,0.2);
    }
```

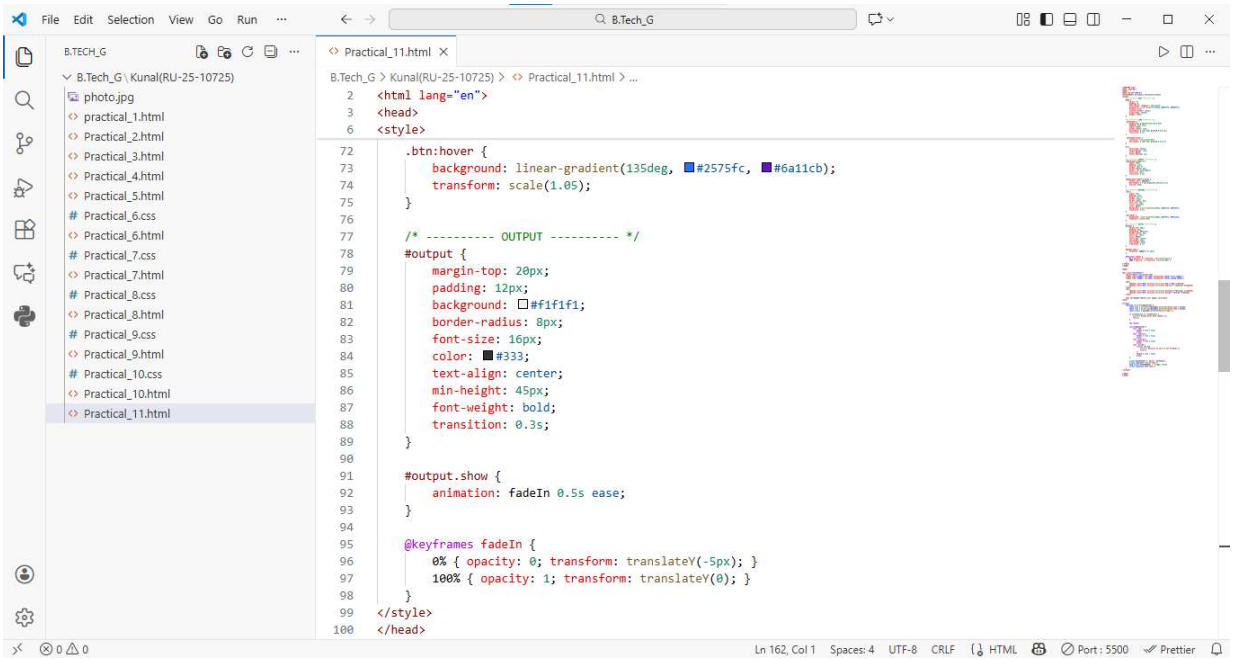


```
<html lang="en">
<head>
<style>
    h2 {
        text-align: center;
        margin-bottom: 25px;
        color: #333;
        letter-spacing: 1px;
    }

    /* ---------- INPUTS ---------- */
    input[type="number"] {
        width: 100%;
        padding: 12px;
        margin: 10px 0;
        border-radius: 8px;
        border: 1px solid #ccc;
        font-size: 15px;
        transition: 0.3s;
    }

    input[type="number"]:focus {
        border-color: #66a6ff;
        box-shadow: 0 0 5px rgba(102,166,255,0.4);
        outline: none;
    }

    /* ---------- BUTTONS ---------- */
    .btn {
        width: 48%;
        padding: 12px;
        margin: 5px 1%;
```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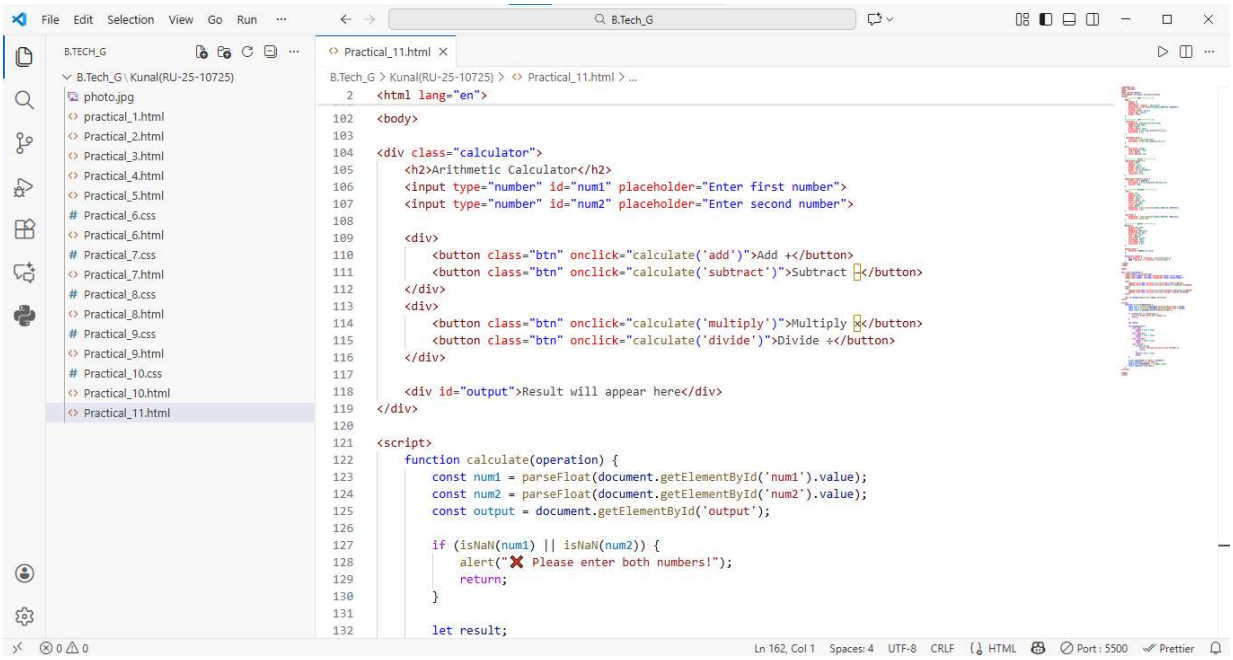
Practical_11.html
B.Tech_G > Kunal(RU-25-10725) > Practical_11.html > ...
<html lang="en">
<head>
<style>
.btn:hover {
background: linear-gradient(135deg, #2575fc, #6a11cb);
transform: scale(1.05);
}
/* ---------- OUTPUT ---------- */
#output {
margin-top: 20px;
padding: 12px;
background: #f1f1f1;
border-radius: 8px;
font-size: 16px;
color: #333;
text-align: center;
min-height: 45px;
font-weight: bold;
transition: 0.3s;
}
#output.show {
animation: fadeIn 0.5s ease;
}
@keyframes fadeIn {
0% { opacity: 0; transform: translateY(-5px); }
100% { opacity: 1; transform: translateY(0); }
}
</style>
</head>
Ln 162, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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<html lang="en">
<body>

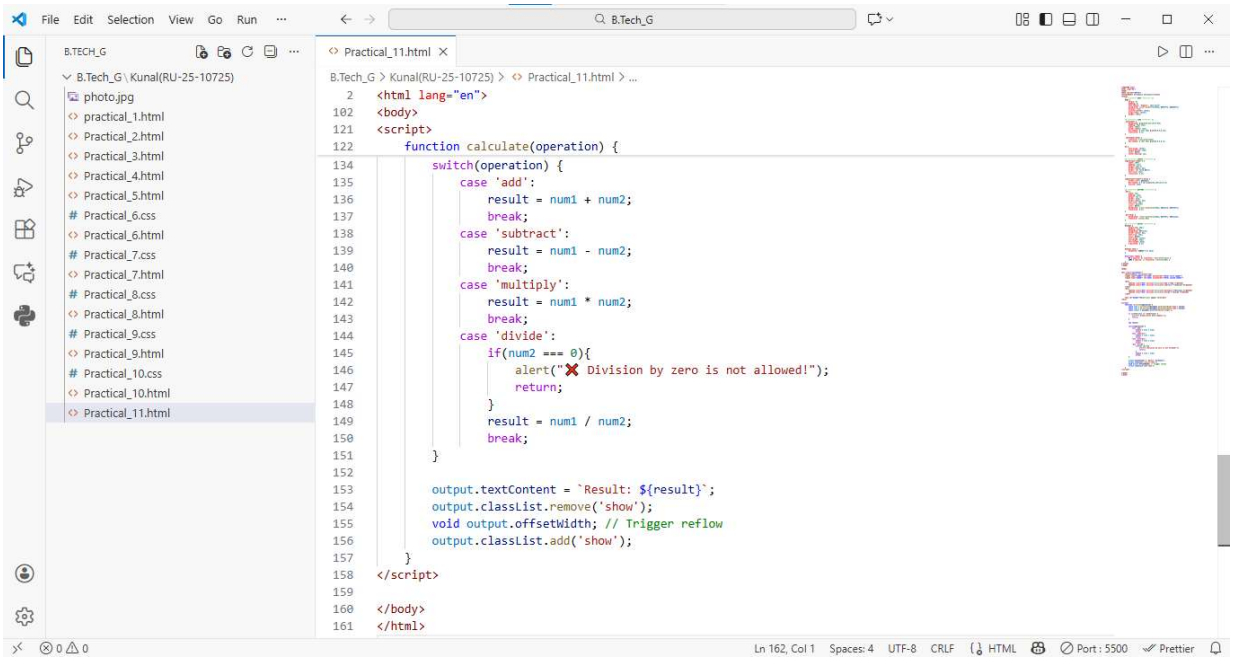
<h2>Arithmetic Calculator</h2>
<input type="number" id="num1" placeholder="Enter first number">
<input type="number" id="num2" placeholder="Enter second number">

<button class="btn" onclick="calculate('add')">Add +</button>
<button class="btn" onclick="calculate('subtract')">Subtract -</button>

<button class="btn" onclick="calculate('multiply')">Multiply ×</button>
<button class="btn" onclick="calculate('divide')">Divide ÷</button>

Result will appear here

<script>
function calculate(operation) {
const num1 = parseFloat(document.getElementById('num1').value);
const num2 = parseFloat(document.getElementById('num2').value);
const output = document.getElementById('output');
if (isNaN(num1) || isNaN(num2)) {
alert("❌ Please enter both numbers!");
return;
}
let result;
Ln 162, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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<html lang="en">
<body>
<script>
function calculate(operation) {
switch(operation) {
case 'add':
result = num1 + num2;
break;
case 'subtract':
result = num1 - num2;
break;
case 'multiply':
result = num1 * num2;
break;
case 'divide':
if(num2 === 0){
alert("❌ Division by zero is not allowed!");
return;
}
result = num1 / num2;
break;
}
output.textContent = `Result: ${result}`;
output.classList.remove('show');
void output.offsetWidth; // Trigger reflow
output.classList.add('show');
}
</script>
</body>
</html>
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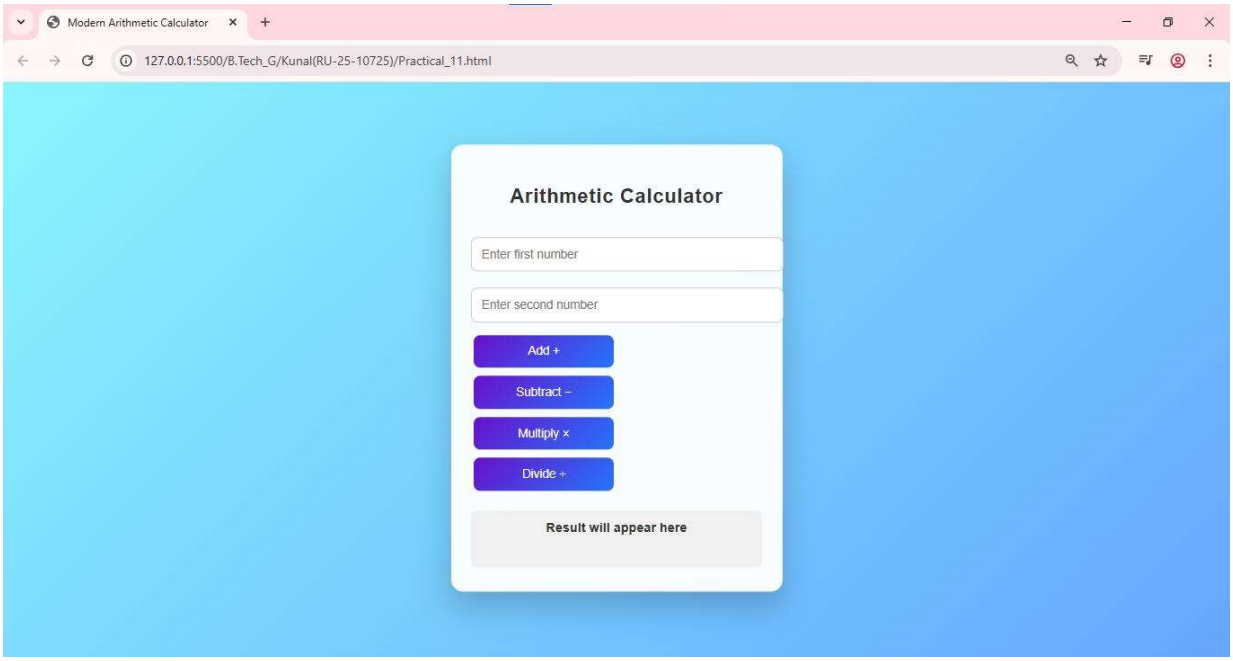
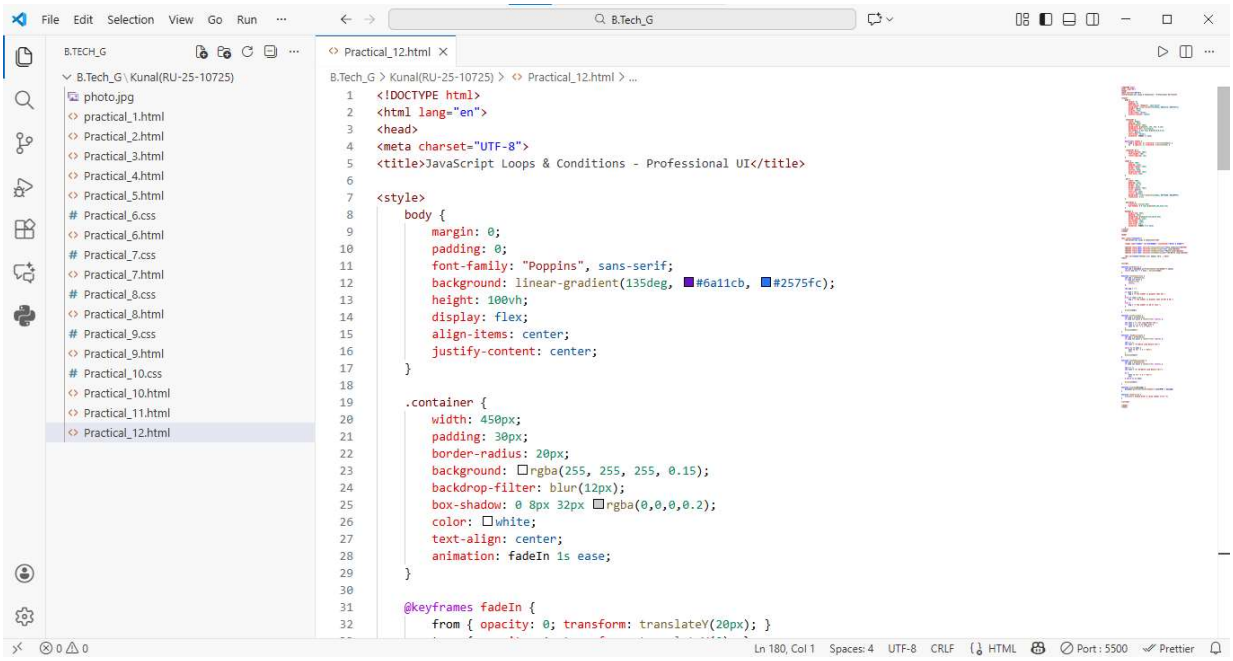
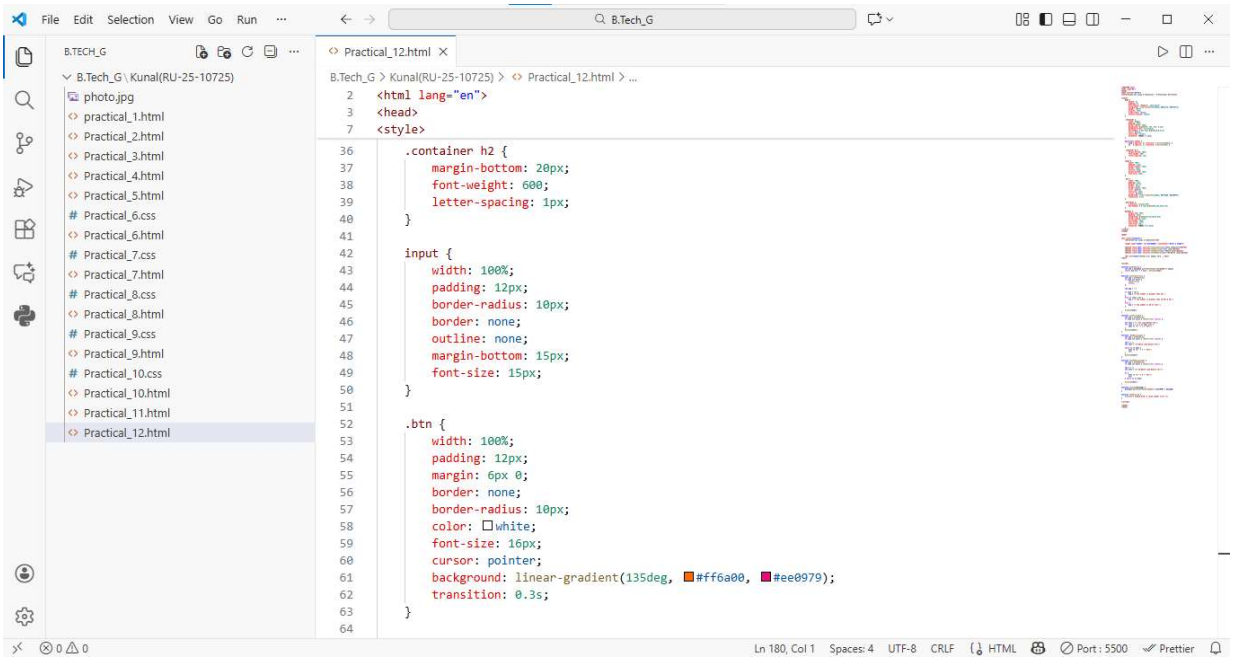

Modern Arithmetic Calculator
127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_11.html
Arithmetic Calculator
Enter first number
Enter second number
Add +
Subtract −
Multiply ×
Divide ÷
Result will appear here

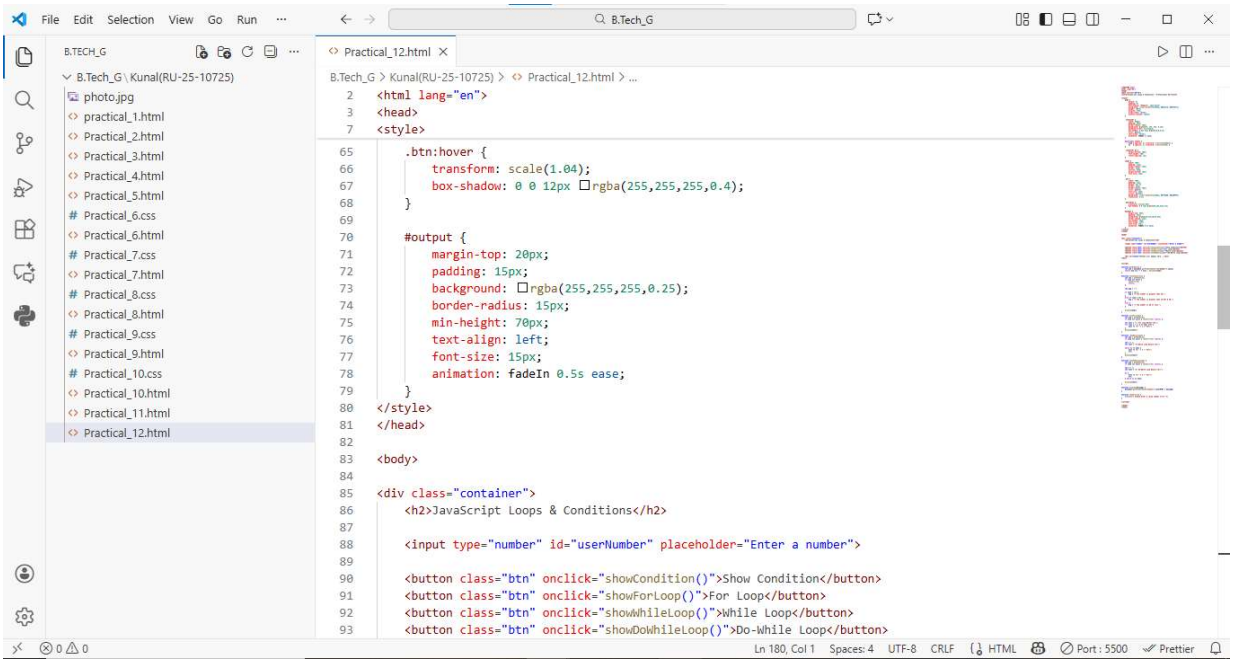
12. Write JavaScript to demonstrate conditional statements and looping (for, while, do…while).



```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>JavaScript Loops & Conditions - Professional UI</title>

<style>
    body {
        margin: 0;
        padding: 0;
        font-family: "Poppins", sans-serif;
        background: linear-gradient(135deg, #6a11cb, #2575fc);
        height: 100vh;
        display: flex;
        align-items: center;
        justify-content: center;
    }

    .container {
        width: 450px;
        padding: 30px;
        border-radius: 20px;
        background: rgba(255, 255, 255, 0.15);
        backdrop-filter: blur(12px);
        box-shadow: 0 8px 32px rgba(0,0,0,0.2);
        color: white;
        text-align: center;
        animation: fadeIn 1s ease;
    }

    @keyframes fadeIn {
        from { opacity: 0; transform: translateY(20px); }
```



```
<html lang="en">
<head>
<style>
    .container h2 {
        margin-bottom: 20px;
        font-weight: 600;
        letter-spacing: 1px;
    }

    input {
        width: 100%;
        padding: 12px;
        border-radius: 10px;
        border: none;
        outline: none;
        margin-bottom: 15px;
        font-size: 15px;
    }

    .btn {
        width: 100%;
        padding: 12px;
        margin: 6px 0;
        border: none;
        border-radius: 10px;
        color: white;
        font-size: 16px;
        cursor: pointer;
        background: linear-gradient(135deg, #ff6a00, #ee0979);
        transition: 0.3s;
    }
```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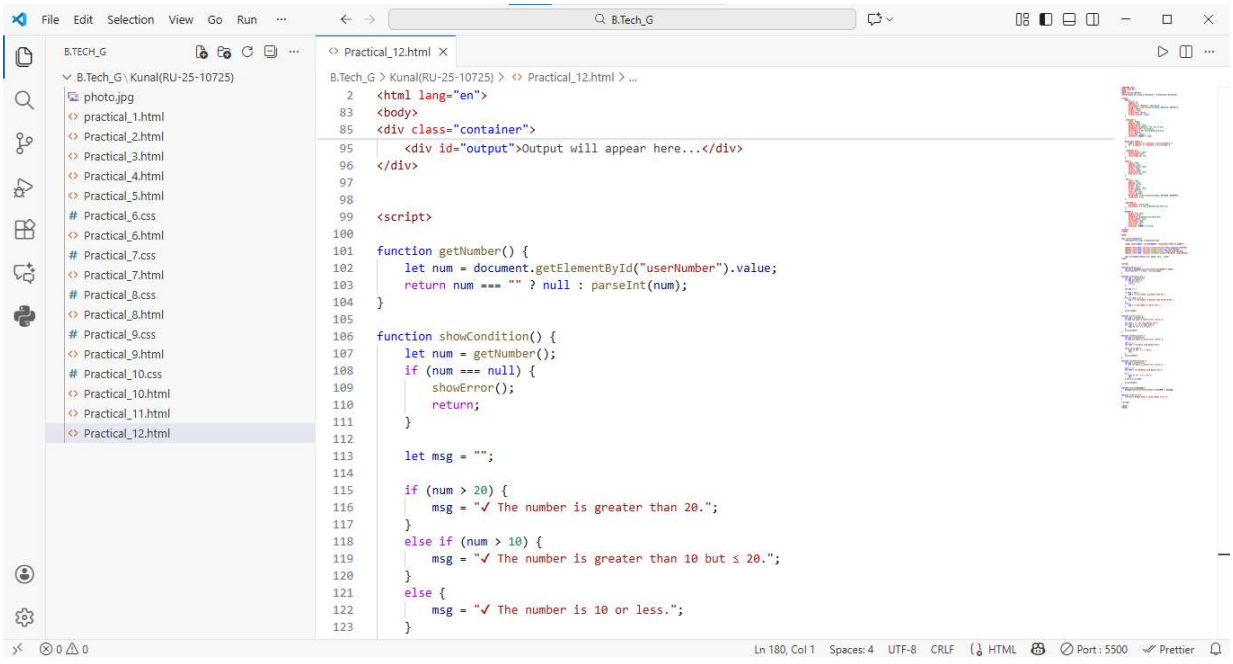
B.Tech_G > Kunal(RU-25-10725) > Practical_12.html > ...
2 <html lang="en">
3 <head>
7 <style>
65 .btn:hover {
66 transform: scale(1.04);
67 box-shadow: 0 0 12px rgba(255,255,255,0.4);
68 }
69
70 #output {
71 margin-top: 20px;
72 padding: 15px;
73 background: rgba(255,255,255,0.25);
74 border-radius: 15px;
75 min-height: 70px;
76 text-align: left;
77 font-size: 15px;
78 animation: fadeIn 0.5s ease;
79 }
80 </style>
81 </head>
82
83 <body>
84
85
86 <h2>JavaScript Loops & Conditions</h2>
87
88 <input type="number" id="userNumber" placeholder="Enter a number">
89
90 <button class="btn" onclick="showCondition()">Show Condition</button>
91 <button class="btn" onclick="showForLoop()">For Loop</button>
92 <button class="btn" onclick="showWhileLoop()">While Loop</button>
93 <button class="btn" onclick="showDoWhileLoop()">Do-While Loop</button>
Ln 180, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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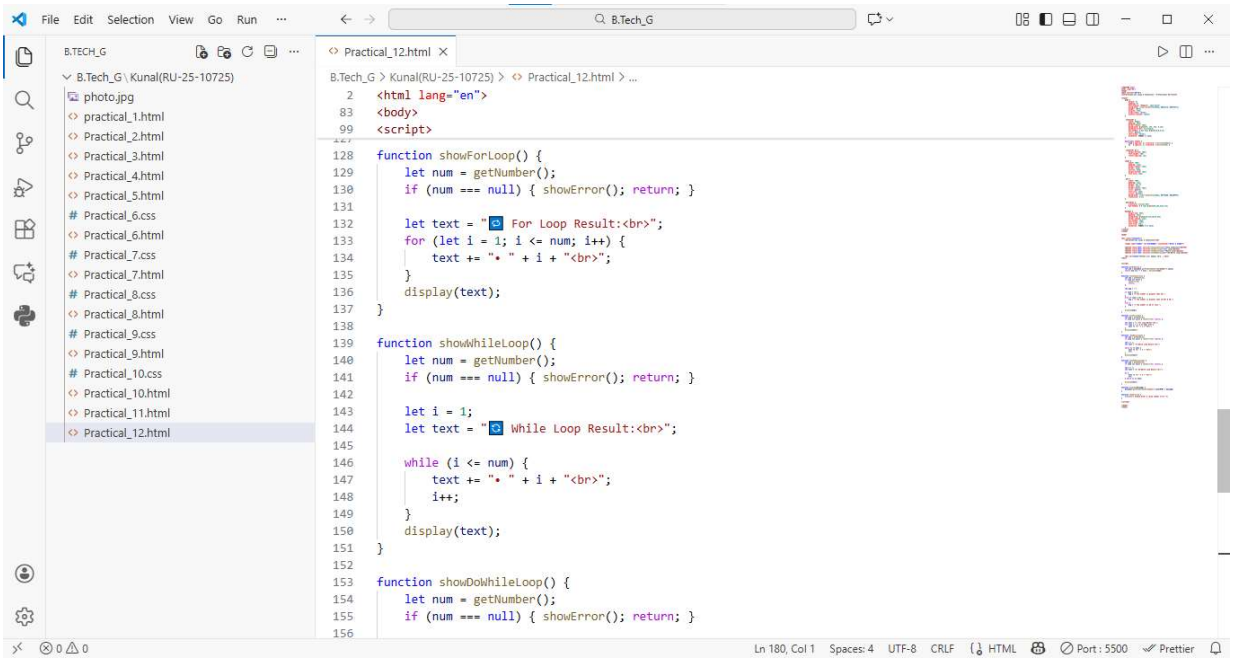
Practical_12.html
Practical_12.html
B.Tech_G > Kunal(RU-25-10725) > Practical_12.html > ...
2 <html lang="en">
83 <body>
85
95 Output will appear here...
96
97
98
99 <script>
100
101 function getNumber() {
102 let num = document.getElementById("userNumber").value;
103 return num === "" ? null : parseInt(num);
104 }
105
106 function showCondition() {
107 let num = getNumber();
108 if (num === null) {
109 showError();
110 return;
111 }
112
113 let msg = "";
114
115 if (num > 20) {
116 msg = "✓ The number is greater than 20.";
117 }
118 else if (num > 10) {
119 msg = "✓ The number is greater than 10 but ≤ 20.";
120 }
121 else {
122 msg = "✓ The number is 10 or less.";
123 }
Ln 180, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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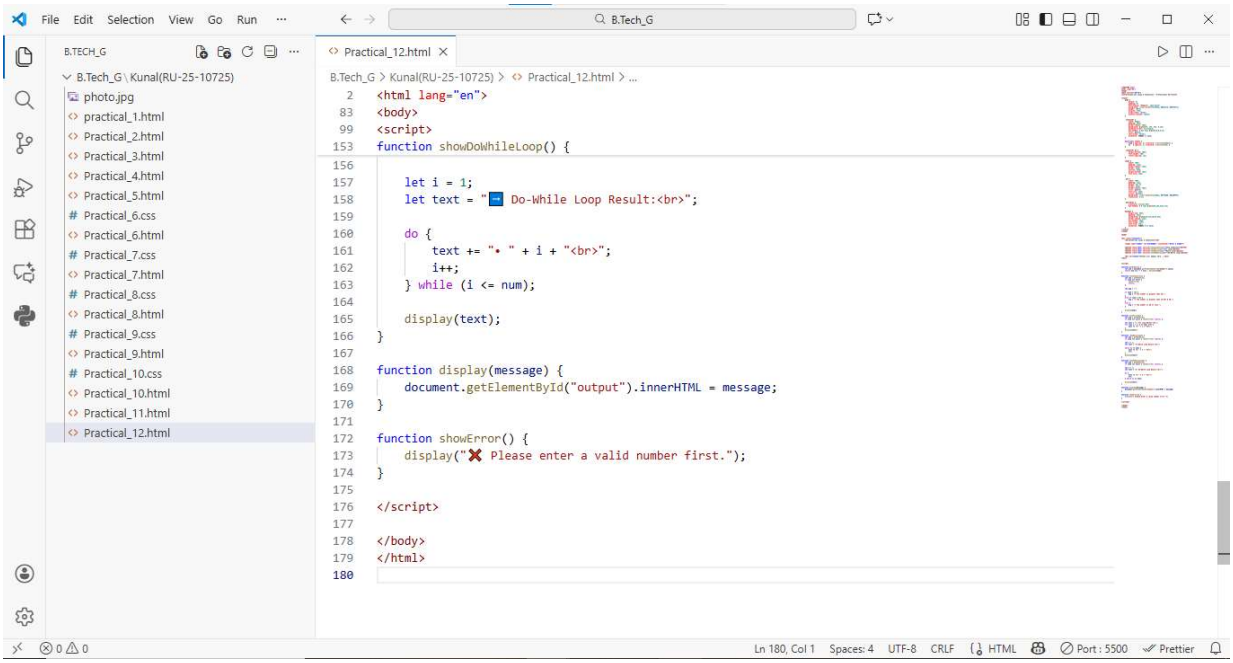
Practical_12.html
B.Tech_G > Kunal(RU-25-10725) > Practical_12.html > ...
2 <html lang="en">
83 <body>
99 <script>
128 function showForLoop() {
129 let num = getNumber();
130 if (num === null) { showError(); return; }
131
132 let text = "🔁 For Loop Result:
";
133 for (let i = 1; i <= num; i++) {
134 text += "• " + i + "<br>";
135 }
136 display(text);
137 }
138
139 function showWhileLoop() {
140 let num = getNumber();
141 if (num === null) { showError(); return; }
142
143 let i = 1;
144 let text = "🔁 While Loop Result:
";
145
146 while (i <= num) {
147 text += "• " + i + "<br>";
148 i++;
149 }
150 display(text);
151 }
152
153 function showDoWhileLoop() {
154 let num = getNumber();
155 if (num === null) { showError(); return; }
156
Ln 180, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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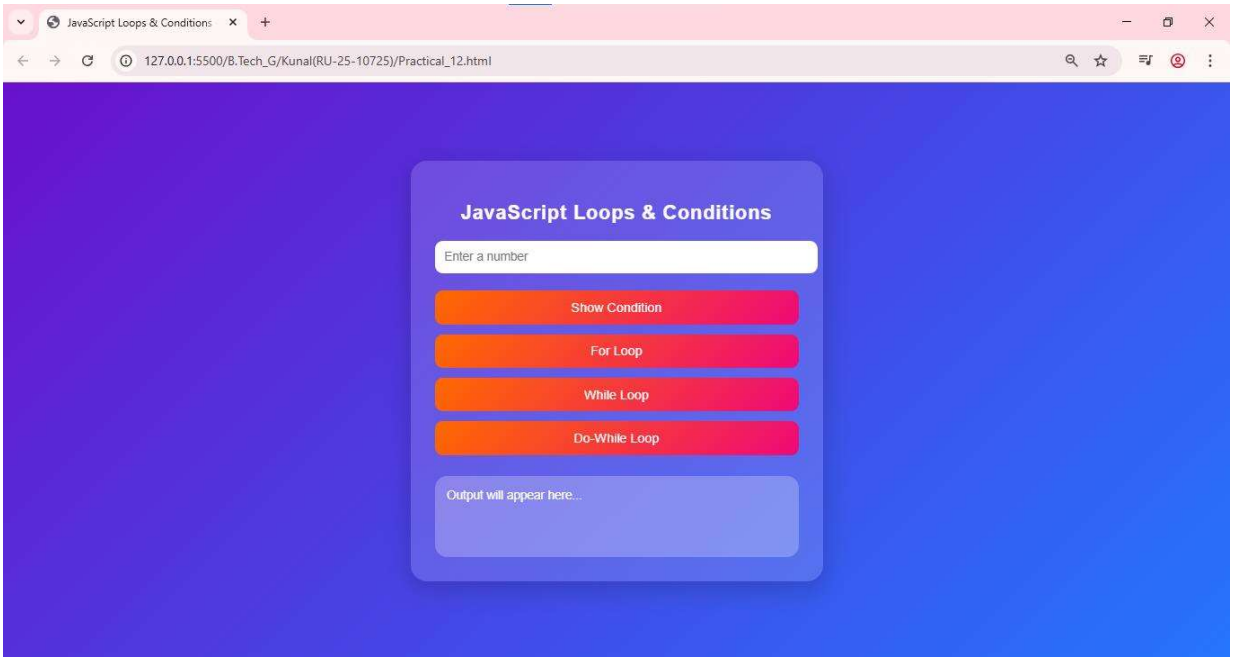
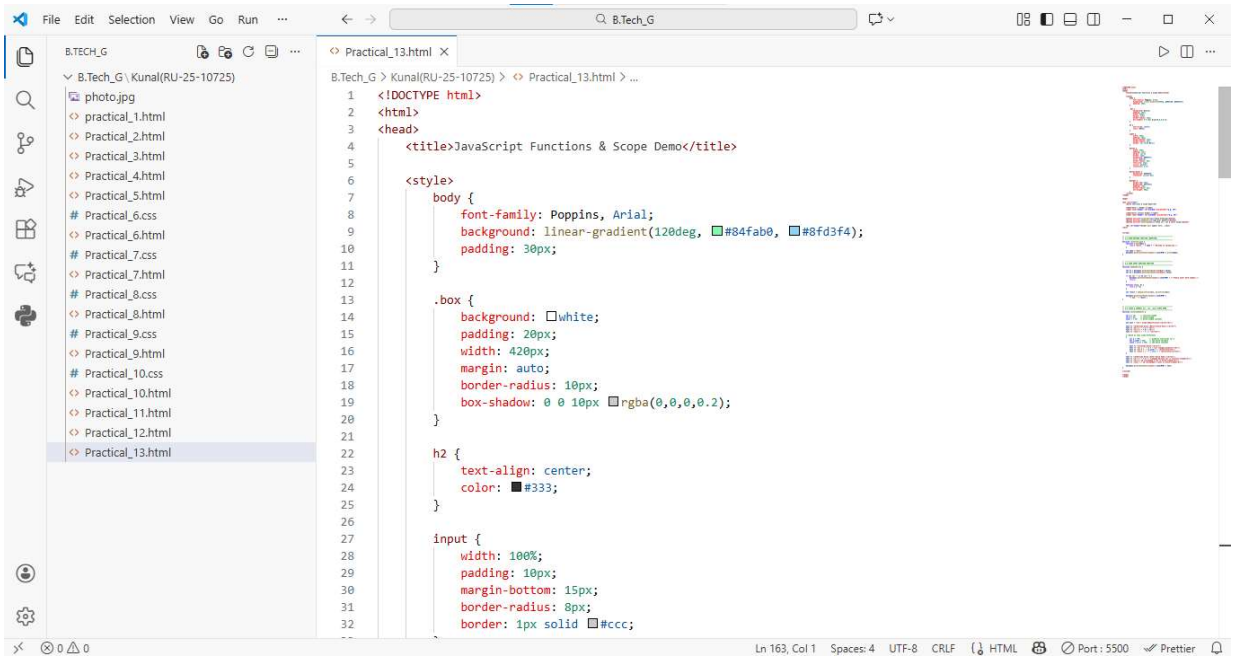
Practical_12.html
B.Tech_G > Kunal(RU-25-10725) > Practical_12.html > ...
2 <html lang="en">
83 <body>
99 <script>
153 function showDoWhileLoop() {
156
157 let i = 1;
158 let text = "➡️ Do-While Loop Result:
";
159
160 do {
161 text += "• " + i + "<br>";
162 i++;
163 } while (i <= num);
164
165 display(text);
166 }
167
168 function display(message) {
169 document.getElementById("output").innerHTML = message;
170 }
171
172 function showError() {
173 display("❌ Please enter a valid number first.");
174 }
175
176 </script>
177
178 </body>
179 </html>
180
Ln 180, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier


JavaScript Loops & Conditions
127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_12.html
JavaScript Loops & Conditions
Enter a number
Show Condition
For Loop
While Loop
Do-While Loop
Output will appear here...

13. Create and invoke user-defined functions in JavaScript; use var, let, and const for scope demonstration.



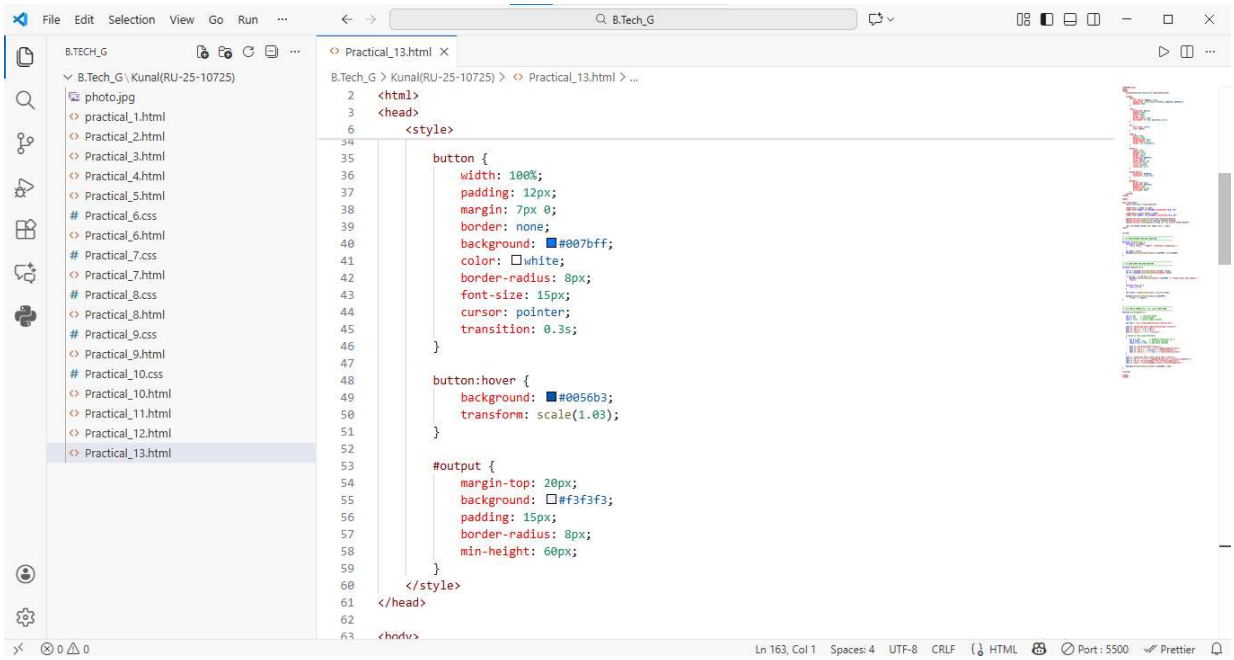
```
<!DOCTYPE html>
<html>
<head>
    <title>JavaScript Functions & Scope Demo</title>

    <style>
        body {
            font-family: Poppins, Arial;
            background: linear-gradient(120deg, #84fab0, #8fd3f4);
            padding: 30px;
        }

        .box {
            background: white;
            padding: 20px;
            width: 420px;
            margin: auto;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0,0,0,0.2);
        }

        h2 {
            text-align: center;
            color: #333;
        }

        input {
            width: 100%;
            padding: 10px;
            margin-bottom: 15px;
            border-radius: 8px;
            border: 1px solid #ccc;
```

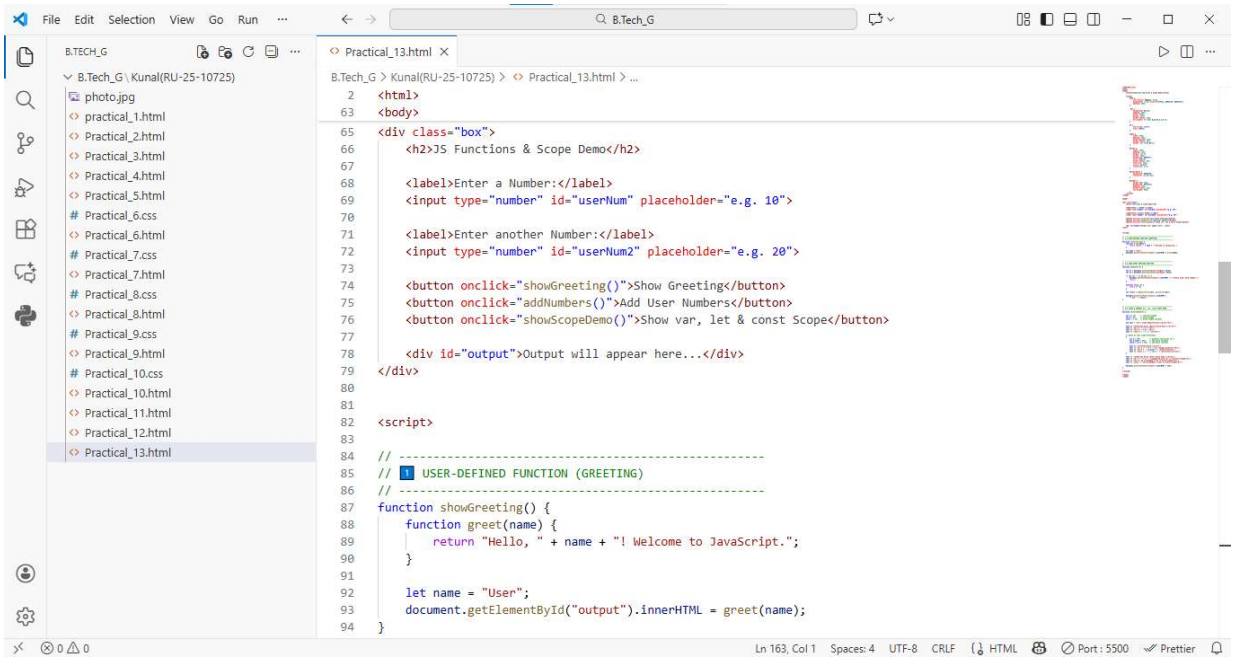


```
<html>
<head>
    <style>

        button {
            width: 100%;
            padding: 12px;
            margin: 7px 0;
            border: none;
            background: #007bff;
            color: white;
            border-radius: 8px;
            font-size: 15px;
            cursor: pointer;
            transition: 0.3s;
        }

        button:hover {
            background: #0056b3;
            transform: scale(1.03);
        }

        #output {
            margin-top: 20px;
            background: #f3f3f3;
            padding: 15px;
            border-radius: 8px;
            min-height: 60px;
        }
    </style>
</head>
```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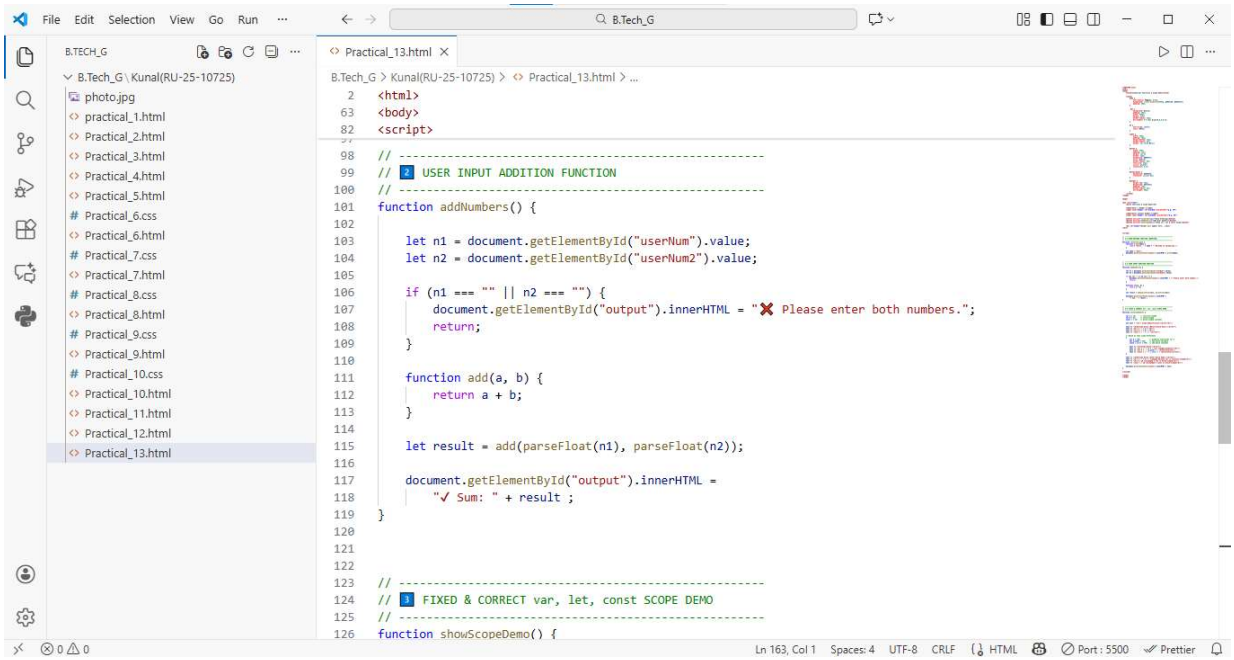
2 <html>
63 <body>
65
66 <h2>JS Functions & Scope Demo</h2>
67
68 <label>Enter a Number:</label>
69 <input type="number" id="userNum" placeholder="e.g. 10">
70
71 <label>Enter another Number:</label>
72 <input type="number" id="userNum2" placeholder="e.g. 20">
73
74 <button onclick="showGreeting()">Show Greeting</button>
75 <button onclick="addNumbers()">Add User Numbers</button>
76 <button onclick="showScopeDemo()">Show var, let & const Scope</button>
77
78 Output will appear here...
79
80
81
82 <script>
83
84 // --
85 // 1 USER-DEFINED FUNCTION (GREETING)
86 // --
87 function showGreeting() {
88 function greet(name) {
89 return "Hello, " + name + "! Welcome to JavaScript.";
90 }
91
92 let name = "User";
93 document.getElementById("output").innerHTML = greet(name);
94 }
Ln 163, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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practical_1.html
Practical_2.html
Practical_3.html
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Practical_5.html
Practical_6.css
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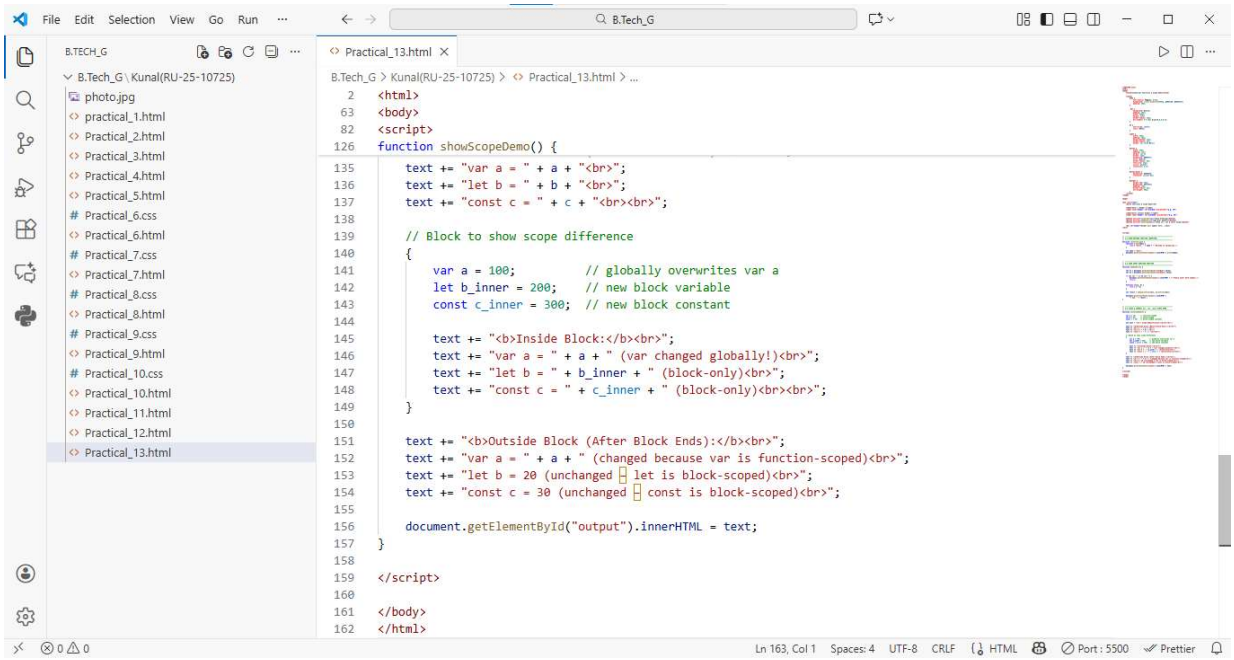
Practical_11.html
Practical_12.html
Practical_13.html
Practical_13.html
B.Tech_G > Kunal(RU-25-10725) > Practical_13.html > ...
2 <html>
63 <body>
82 <script>
98 // --
99 // 2 USER INPUT ADDITION FUNCTION
100 // --
101 function addNumbers() {
102
103 let n1 = document.getElementById("userNum").value;
104 let n2 = document.getElementById("userNum2").value;
105
106 if (n1 === "" || n2 === "") {
107 document.getElementById("output").innerHTML = "❌ Please enter both numbers.";
108 return;
109 }
110
111 function add(a, b) {
112 return a + b;
113 }
114
115 let result = add(parseFloat(n1), parseFloat(n2));
116
117 document.getElementById("output").innerHTML =
118 "✓ Sum: " + result ;
119 }
120
121
122
123 // --
124 // 3 FIXED & CORRECT var, let, const SCOPE DEMO
125 // --
126 function showScopeDemo() {
Ln 163, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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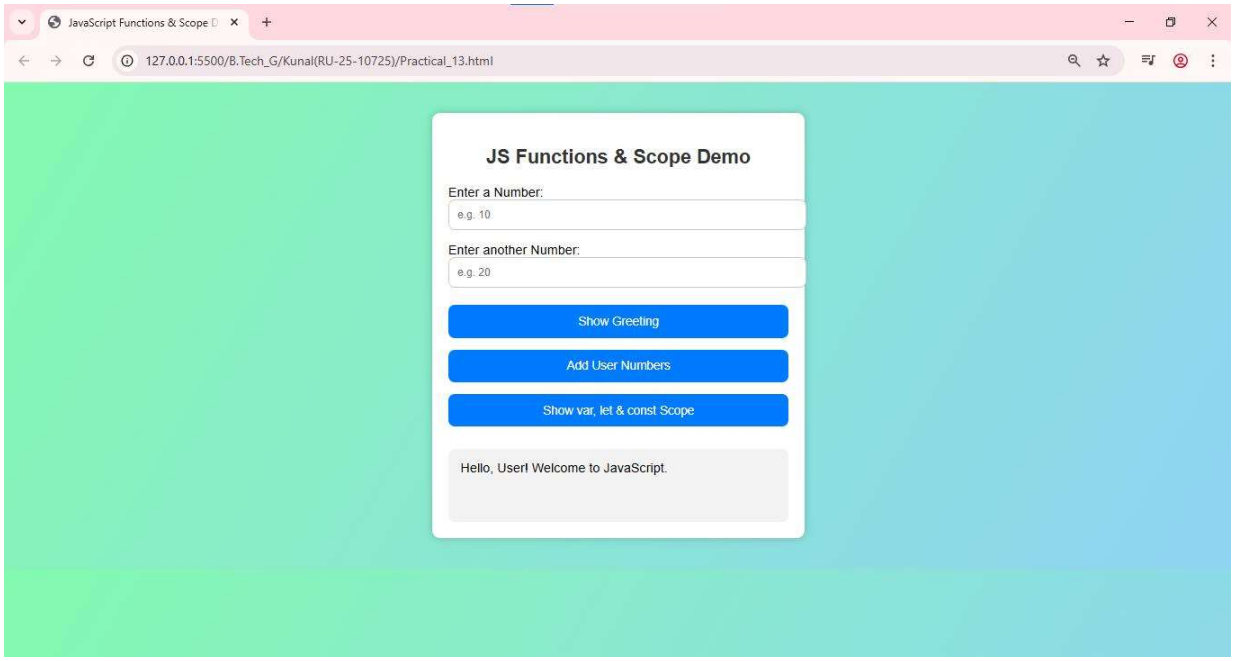
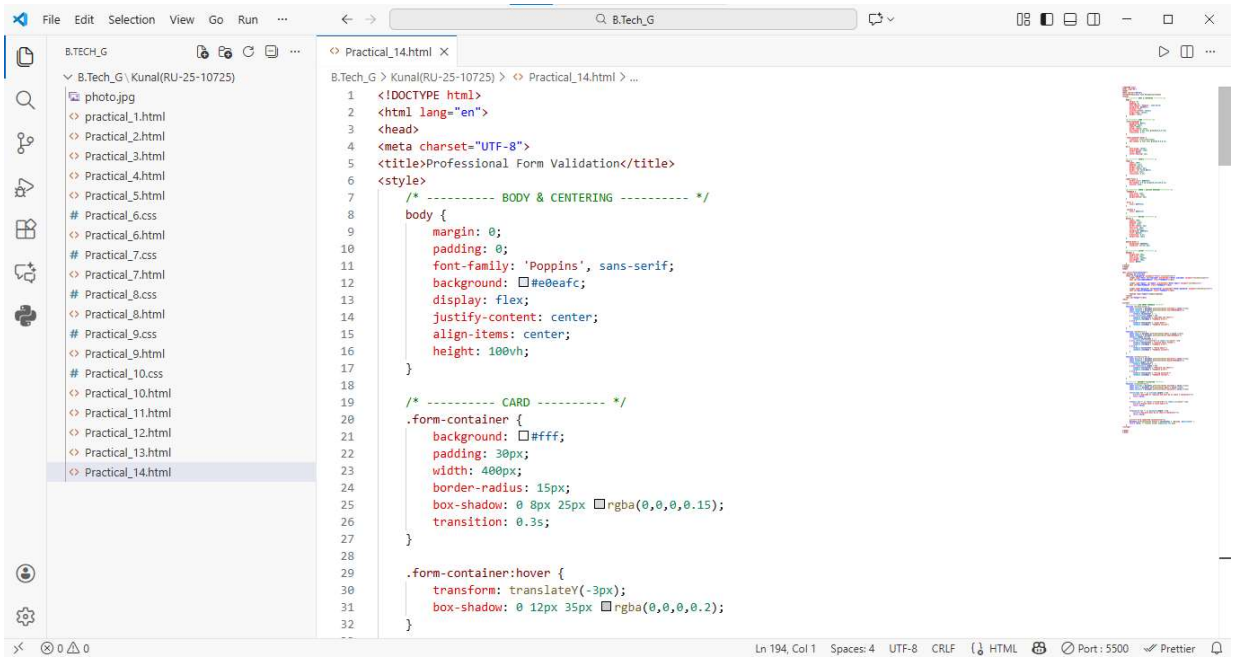
Practical_13.html
Practical_13.html
B.Tech_G > Kunal(RU-25-10725) > Practical_13.html > ...
2 <html>
63 <body>
82 <script>
126 function showScopeDemo() {
135 text += "var a = " + a + "<br>";
136 text += "let b = " + b + "<br>";
137 text += "const c = " + c + "

";
138
139 // Block to show scope difference
140 {
141 var a = 100; // globally overwrites var a
142 let b_inner = 200; // new block variable
143 const c_inner = 300; // new block constant
144
145 text += "Inside Block:
";
146 text += "var a = " + a + " (var changed globally!)
";
147 text += "let b = " + b_inner + " (block-only)
";
148 text += "const c = " + c_inner + " (block-only)

";
149 }
150
151 text += "Outside Block (After Block Ends):
";
152 text += "var a = " + a + " (changed because var is function-scoped)
";
153 text += "let b = 20 (unchanged – let is block-scoped)
";
154 text += "const c = 30 (unchanged – const is block-scoped)
";
155
156 document.getElementById("output").innerHTML = text;
157 }
158
159 </script>
160
161 </body>
162 </html>
Ln 163, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier


JavaScript Functions & Scope
127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_13.html
JS Functions & Scope Demo
Enter a Number:
e.g. 10
Enter another Number:
e.g. 20
Show Greeting
Add User Numbers
Show var, let & const Scope
Hello, User! Welcome to JavaScript.

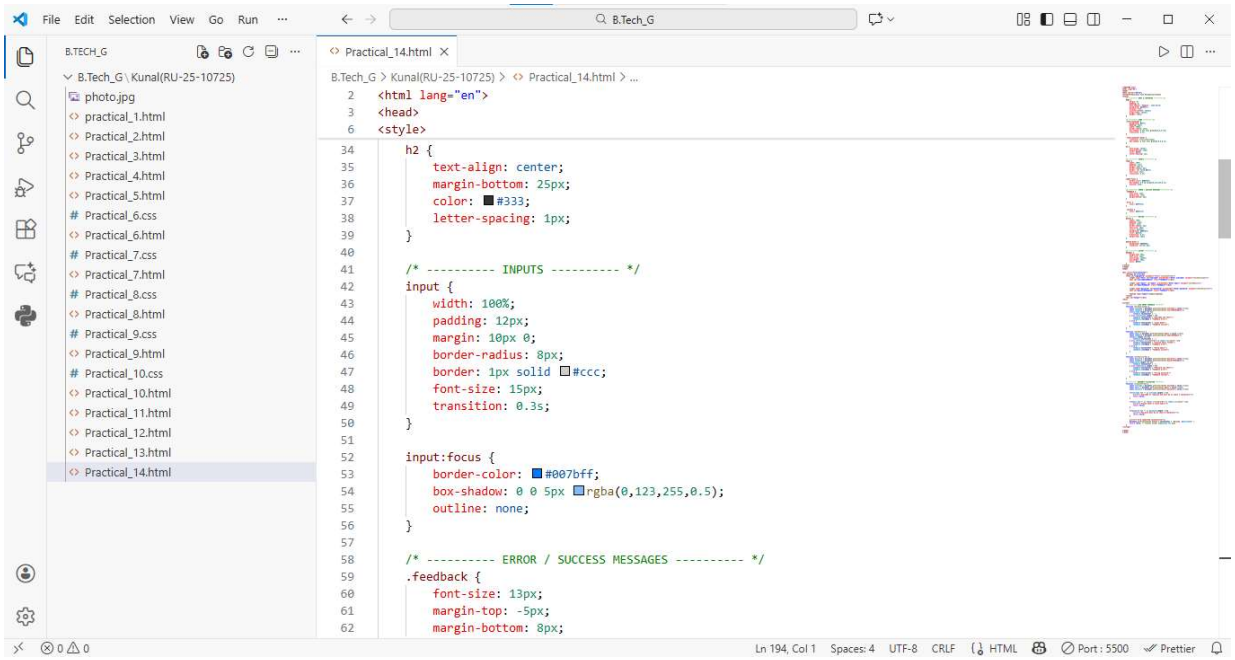
14. Handle HTML form validation using JavaScript events like onsubmit, oninput, and use alert() for feedback.



```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Professional Form Validation</title>
<style>
    /* ---------- BODY & CENTERING ---------- */
    body {
        margin: 0;
        padding: 0;
        font-family: 'Poppins', sans-serif;
        background: #e0eafc;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
    }

    /* ---------- CARD ---------- */
    .form-container {
        background: #fff;
        padding: 30px;
        width: 400px;
        border-radius: 15px;
        box-shadow: 0 8px 25px rgba(0,0,0,0.15);
        transition: 0.3s;
    }

    .form-container:hover {
        transform: translateY(-3px);
        box-shadow: 0 12px 35px rgba(0,0,0,0.2);
    }
```

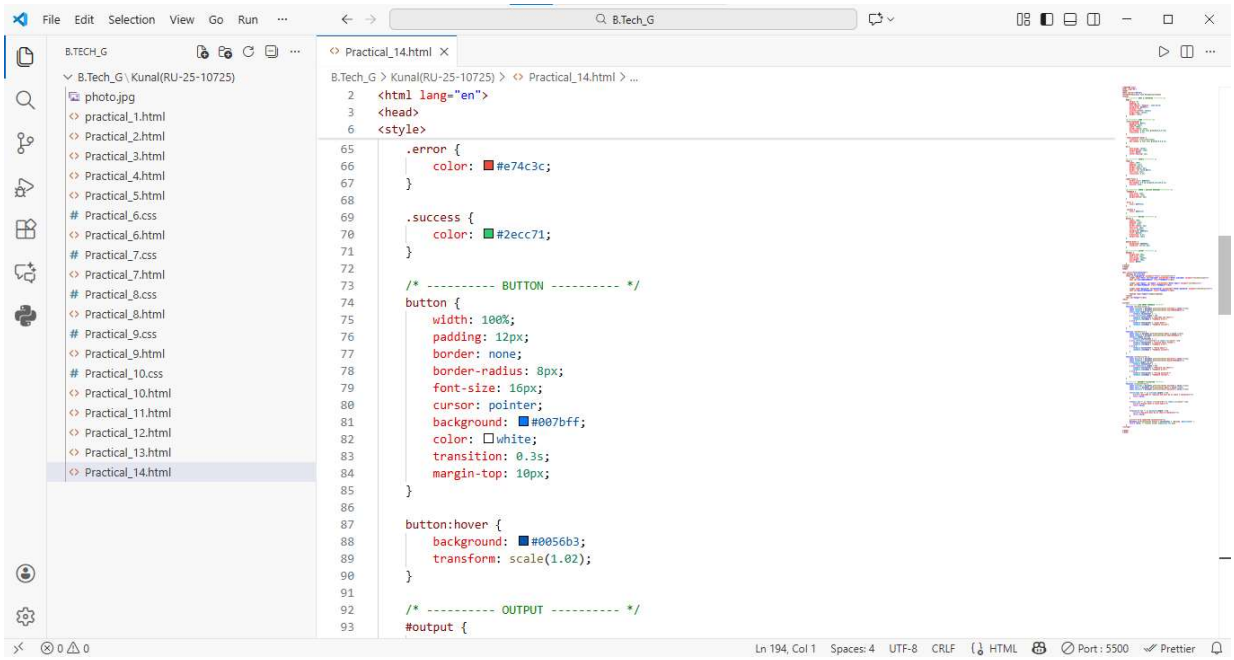


```
<html lang="en">
<head>
<style>
    h2 {
        text-align: center;
        margin-bottom: 25px;
        color: #333;
        letter-spacing: 1px;
    }

    /* ---------- INPUTS ---------- */
    input {
        width: 100%;
        padding: 12px;
        margin: 10px 0;
        border-radius: 8px;
        border: 1px solid #ccc;
        font-size: 15px;
        transition: 0.3s;
    }

    input:focus {
        border-color: #007bff;
        box-shadow: 0 0 5px rgba(0,123,255,0.5);
        outline: none;
    }

    /* ---------- ERROR / SUCCESS MESSAGES ---------- */
    .feedback {
        font-size: 13px;
        margin-top: -5px;
        margin-bottom: 8px;
```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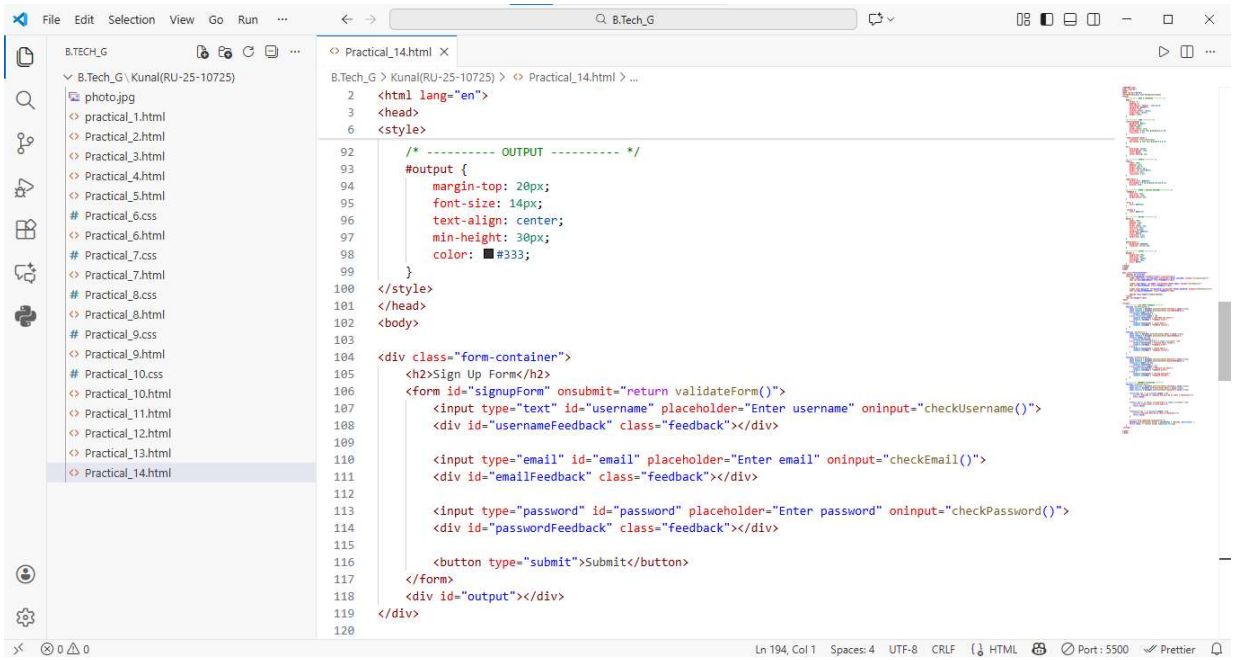
Practical_12.html
Practical_13.html
Practical_14.html
Practical_14.html
B.Tech_G > Kunal(RU-25-10725) > Practical_14.html > ...
2 <html lang="en">
3 <head>
6 <style>
65 .error {
66 color: #e74c3c;
67 }
68
69 .success {
70 color: #2ecc71;
71 }
72
73 /* ---------- BUTTON ---------- */
74 button {
75 width: 100%;
76 padding: 12px;
77 border: none;
78 border-radius: 8px;
79 font-size: 16px;
80 cursor: pointer;
81 background: #007bff;
82 color: white;
83 transition: 0.3s;
84 margin-top: 10px;
85 }
86
87 button:hover {
88 background: #0056b3;
89 transform: scale(1.02);
90 }
91
92 /* ---------- OUTPUT ---------- */
93 #output {
Ln 194, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier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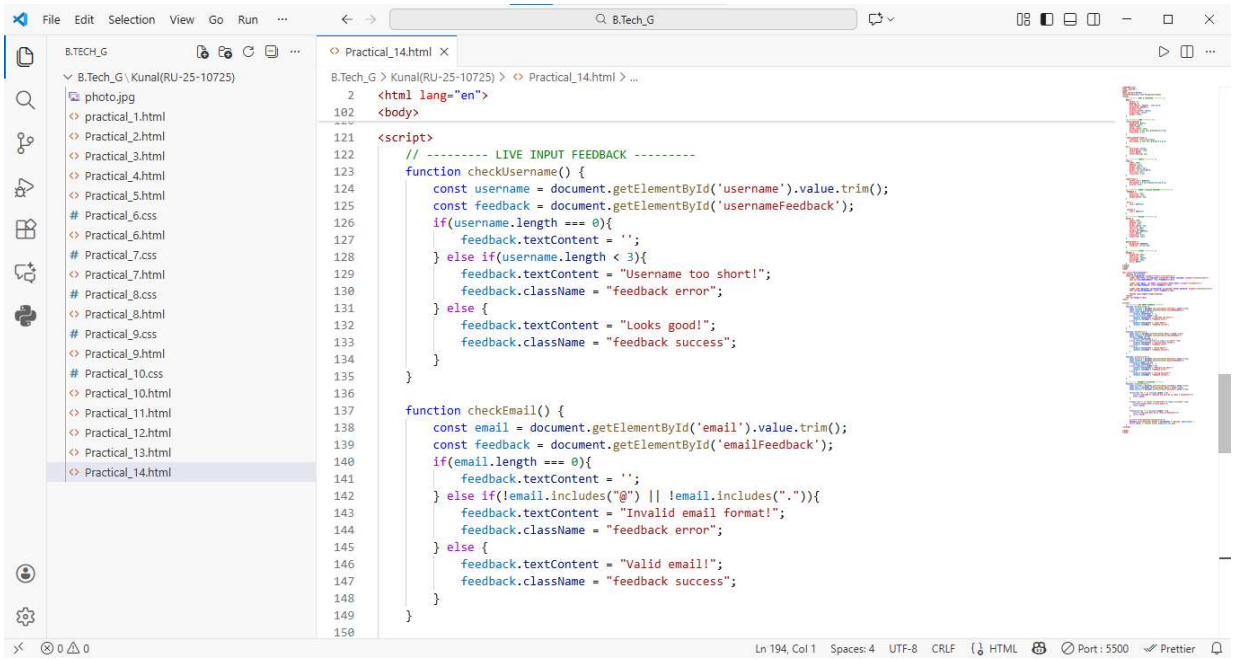
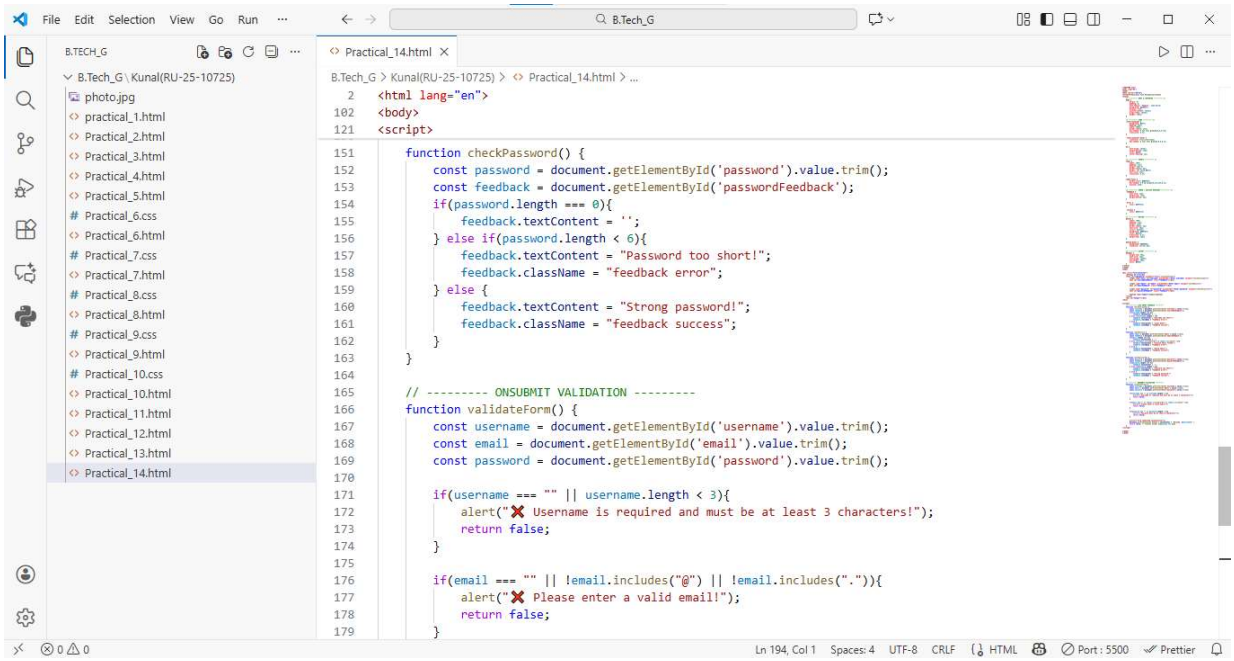
Practical_12.html
Practical_13.html
Practical_14.html
Practical_14.html
B.Tech_G > Kunal(RU-25-10725) > Practical_14.html > ...
2 <html lang="en">
3 <head>
6 <style>
92 /* ---------- OUTPUT ---------- */
93 #output {
94 margin-top: 20px;
95 font-size: 14px;
96 text-align: center;
97 min-height: 30px;
98 color: #333;
99 }
100 </style>
101 </head>
102 <body>
103
104
105 <h2>Sign Up Form</h2>
106 <form id="signupForm" onsubmit="return validateForm()">
107 <input type="text" id="username" placeholder="Enter username" oninput="checkUsername()">
108
109
110 <input type="email" id="email" placeholder="Enter email" oninput="checkEmail()">
111
112
113 <input type="password" id="password" placeholder="Enter password" oninput="checkPassword()">
114
115
116 <button type="submit">Submit</button>
117 </form>
118
119
120
Ln 194, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier



```
<html lang="en">
<body>

<script>
    // --------- LIVE INPUT FEEDBACK ---------
    function checkUsername() {
        const username = document.getElementById('username').value.trim();
        const feedback = document.getElementById('usernameFeedback');
        if(username.length === 0){
            feedback.textContent = '';
        } else if(username.length < 3){
            feedback.textContent = "Username too short!";
            feedback.className = "feedback error";
        } else {
            feedback.textContent = "Looks good!";
            feedback.className = "feedback success";
        }
    }

    function checkEmail() {
        const email = document.getElementById('email').value.trim();
        const feedback = document.getElementById('emailFeedback');
        if(email.length === 0){
            feedback.textContent = '';
        } else if(!email.includes("@") || !email.includes(".")){
            feedback.textContent = "Invalid email format!";
            feedback.className = "feedback error";
        } else {
            feedback.textContent = "Valid email!";
            feedback.className = "feedback success";
        }
    }
```

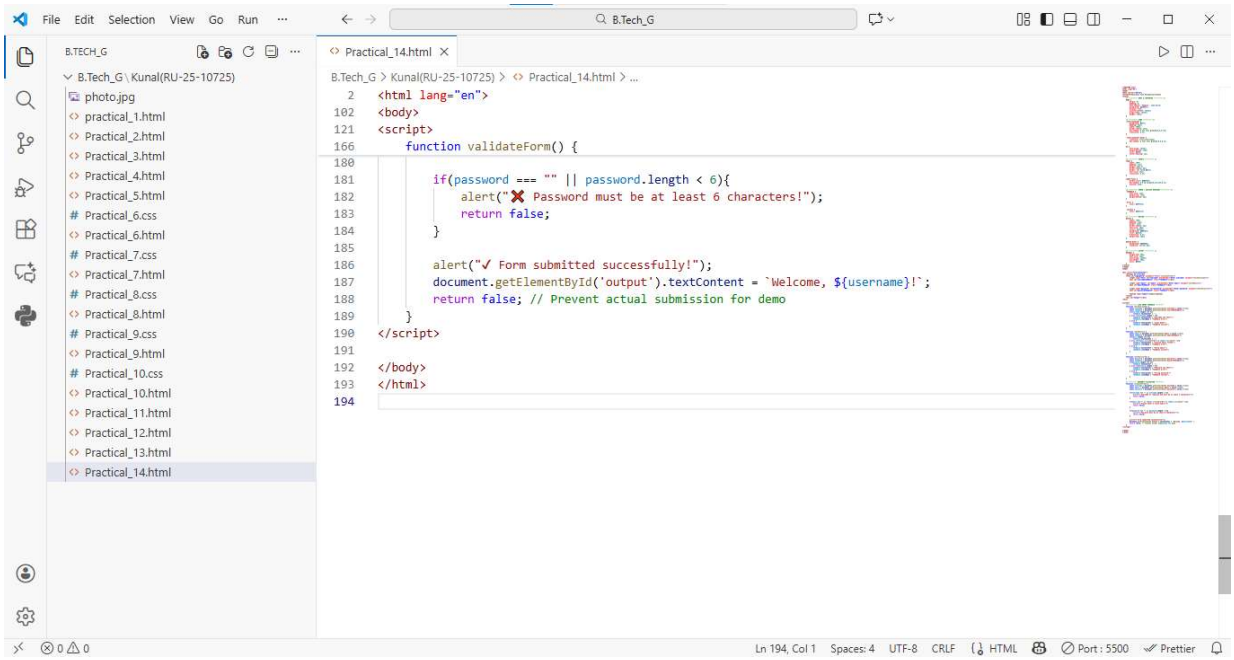


```
<html lang="en">
<body>
<script>
    function checkPassword() {
        const password = document.getElementById('password').value.trim();
        const feedback = document.getElementById('passwordFeedback');
        if(password.length === 0){
            feedback.textContent = '';
        } else if(password.length < 6){
            feedback.textContent = "Password too short!";
            feedback.className = "feedback error";
        } else {
            feedback.textContent = "Strong password!";
            feedback.className = "feedback success";
        }
    }

    // --------- ONSUBMIT VALIDATION ---------
    function validateForm() {
        const username = document.getElementById('username').value.trim();
        const email = document.getElementById('email').value.trim();
        const password = document.getElementById('password').value.trim();

        if(username === "" || username.length < 3){
            alert("❌ Username is required and must be at least 3 characters!");
            return false;
        }

        if(email === "" || !email.includes("@") || !email.includes(".")){
            alert("❌ Please enter a valid email!");
            return false;
        }
```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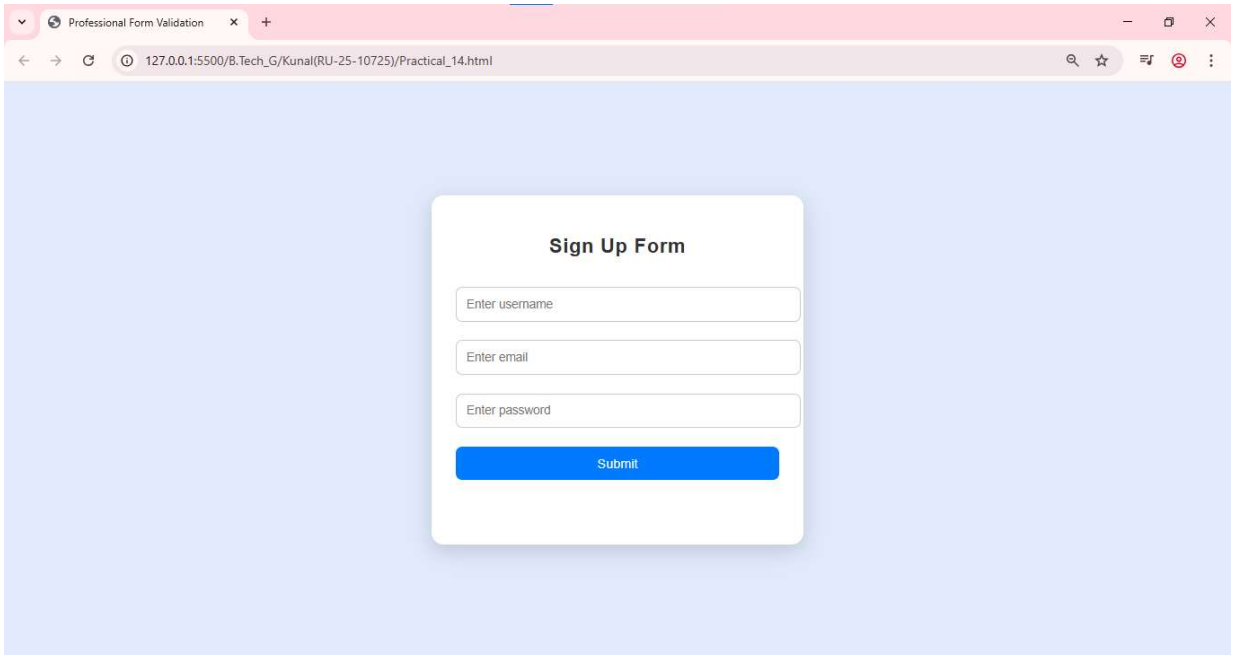
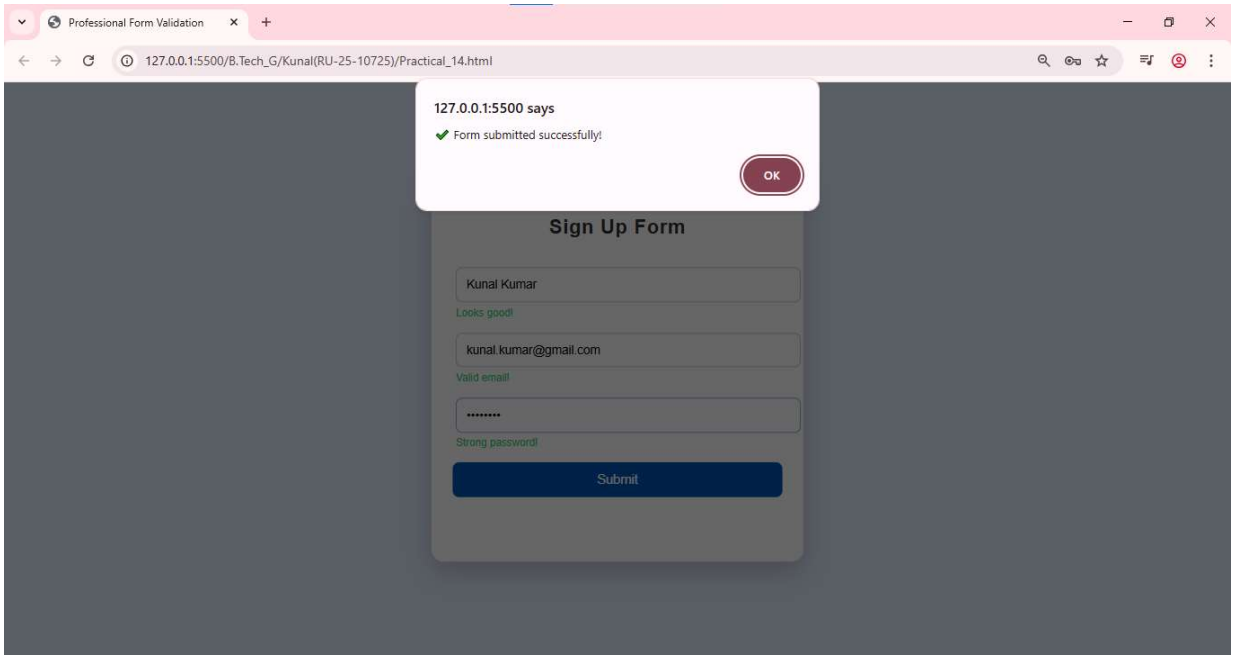
Practical_12.html
Practical_13.html
Practical_14.html
Practical_14.html
B.Tech_G > Kunal(RU-25-10725) > Practical_14.html > ...
2 <html lang="en">
102 <body>
121 <script>
166 function validateForm() {
180
181 if(password === "" || password.length < 6){
182 alert("❌ Password must be at least 6 characters!");
183 return false;
184 }
185
186 alert("✓ Form submitted successfully!");
187 document.getElementById('output').textContent = `Welcome, ${username}!`;
188 return false; // Prevent actual submission for demo
189 }
190 </script>
191
192 </body>
193 </html>
194
Ln 194, Col 1 Spaces: 4 UTF-8 CRLF HTML Port : 5500 Prettier


Professional Form Validation
127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_14.html
Sign Up Form
Enter username
Enter email
Enter password
Submit


Professional Form Validation
127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_14.html
127.0.0.1:5500 says
Form submitted successfully!
OK
Sign Up Form
Kunal Kumar
Looks good!
kunal.kumar@gmail.com
Valid email!
Strong password!
Submit