

Lesson 03 Demo 04

Implementing Form Validation

Objective: To demonstrate the implementation of JavaScript-based form validation for a login page, ensuring user authentication by verifying specified username and password criteria

Tools required: Visual Studio code and Node.js

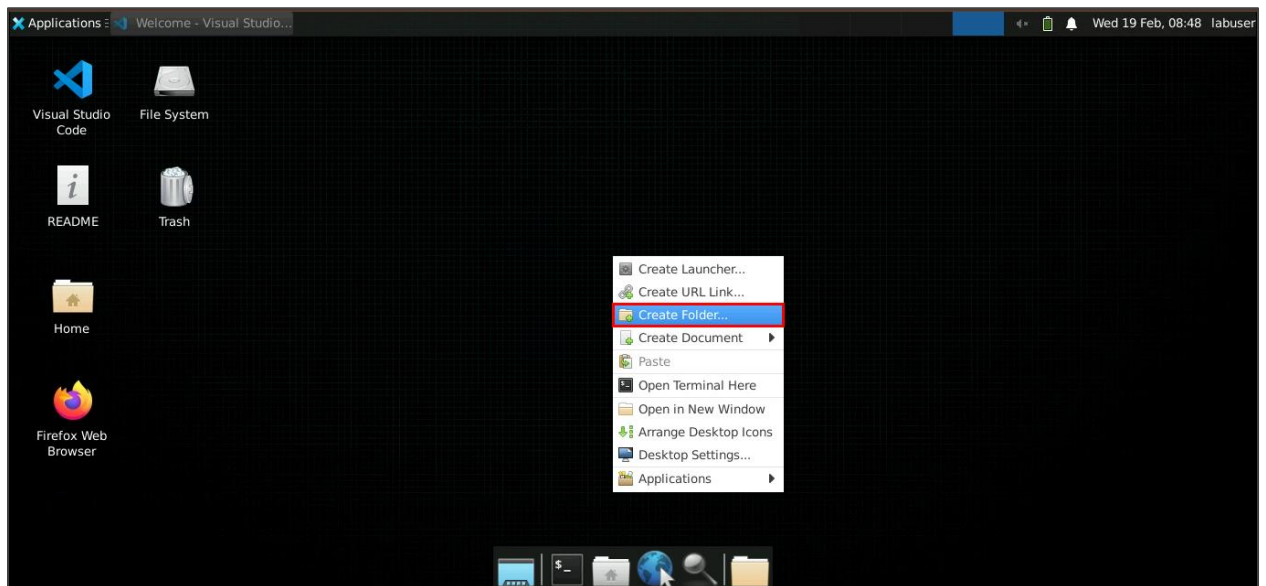
Prerequisites: Basic understanding of functions in JavaScript

Steps to be followed:

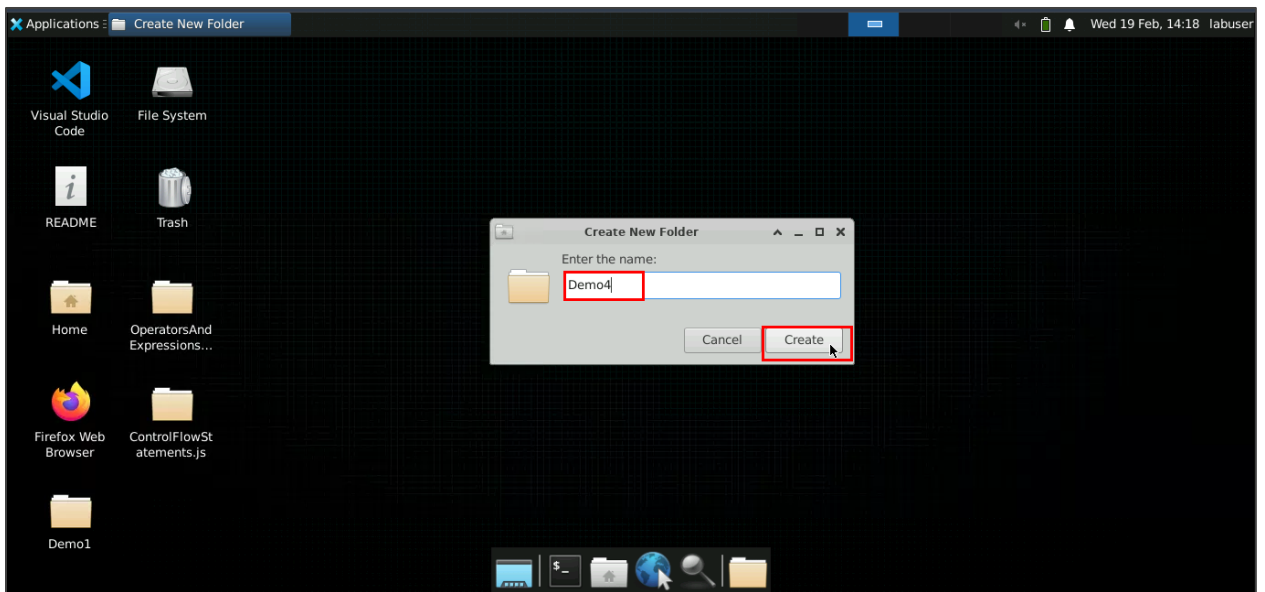
1. Create a folder
2. Execute the JavaScript file

Step 1: Create a folder

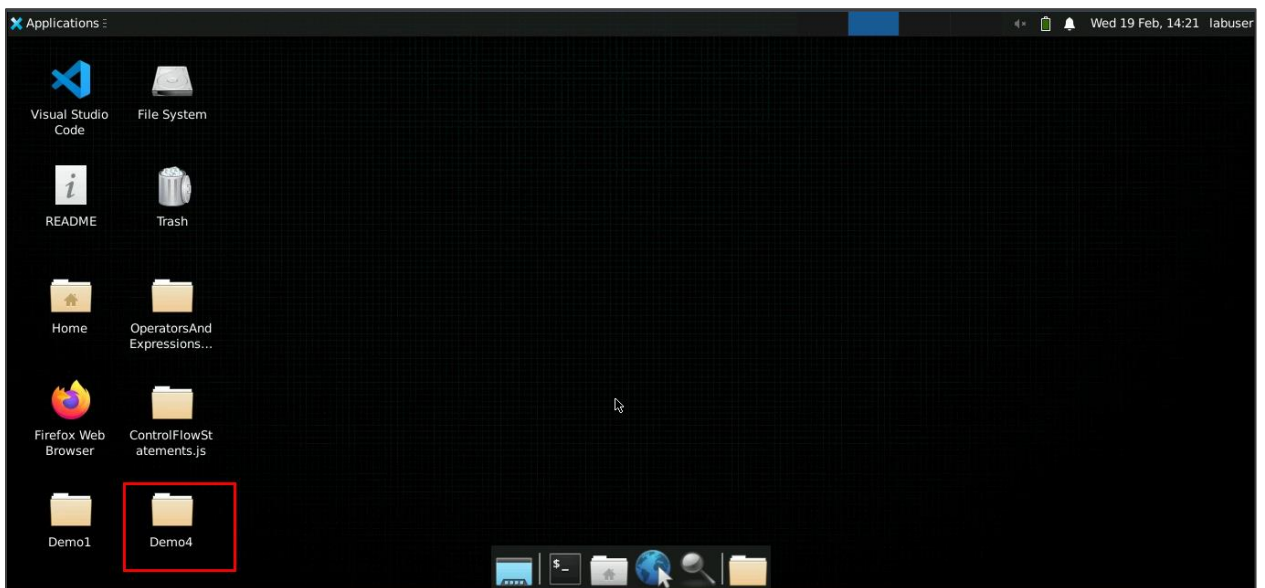
1.1 Right-click on the desktop and click on **Create Folder...**



1.2 Enter the name as **Demo4** and click on **Create**

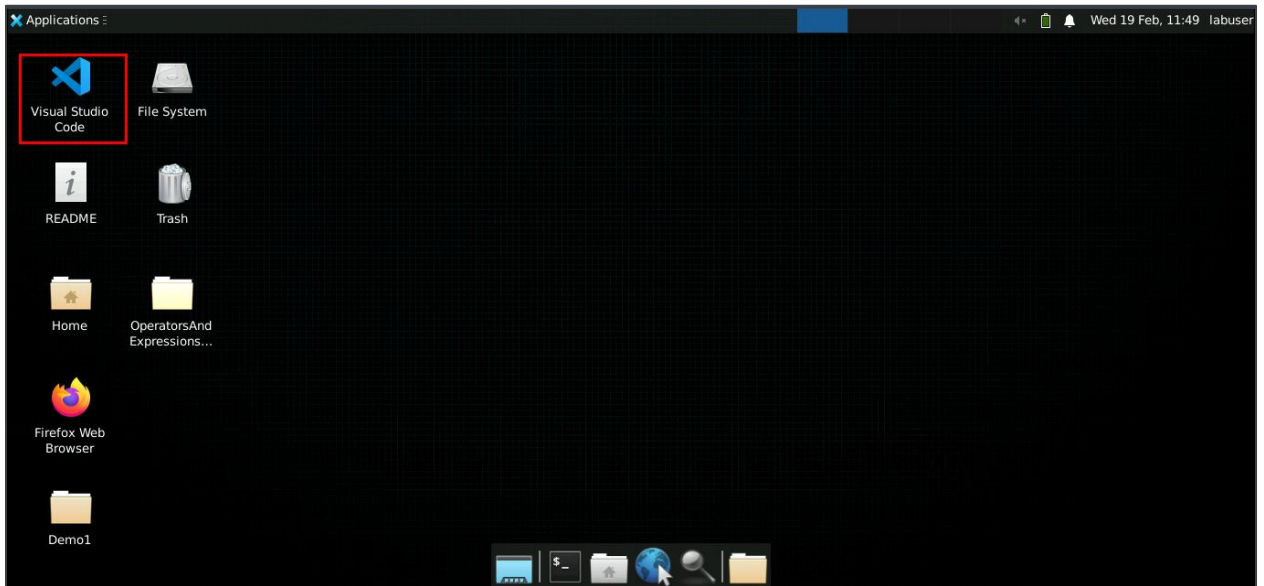


The **Demo4** folder gets created as shown below:

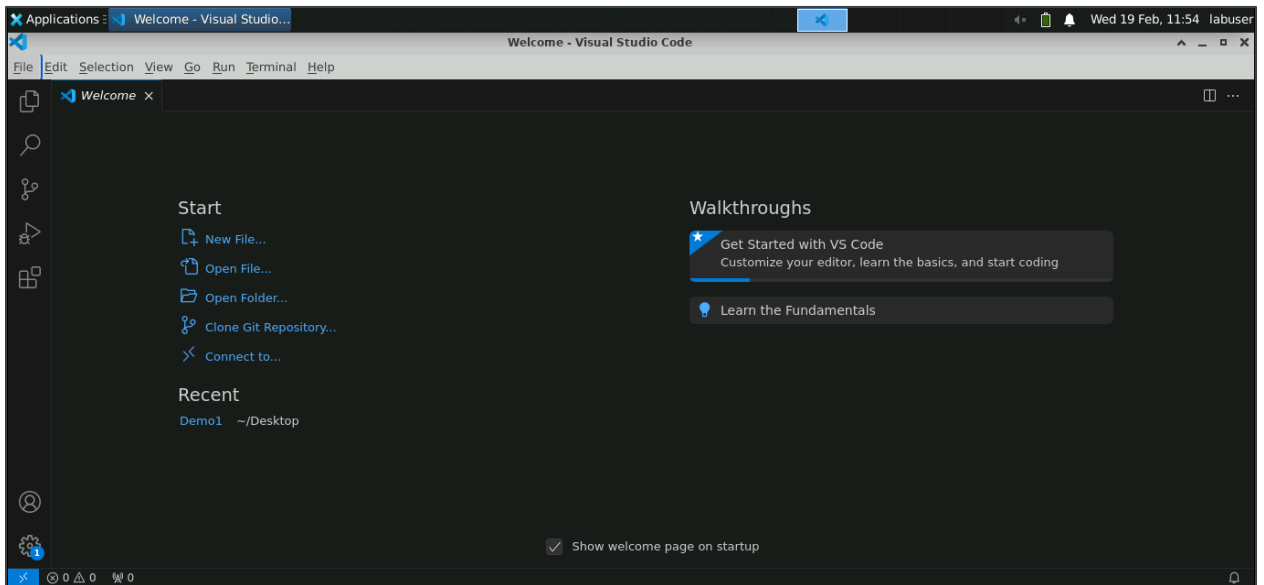


Step 2: Execute the JavaScript file

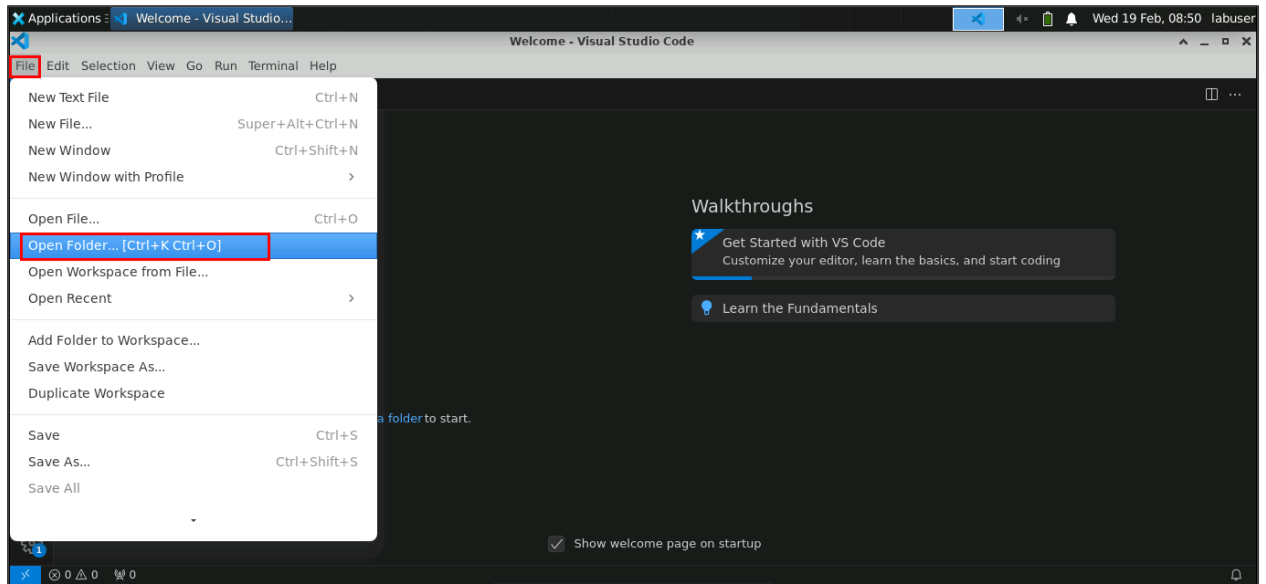
2.1 Double-click on the **Visual Studio Code** icon to open it



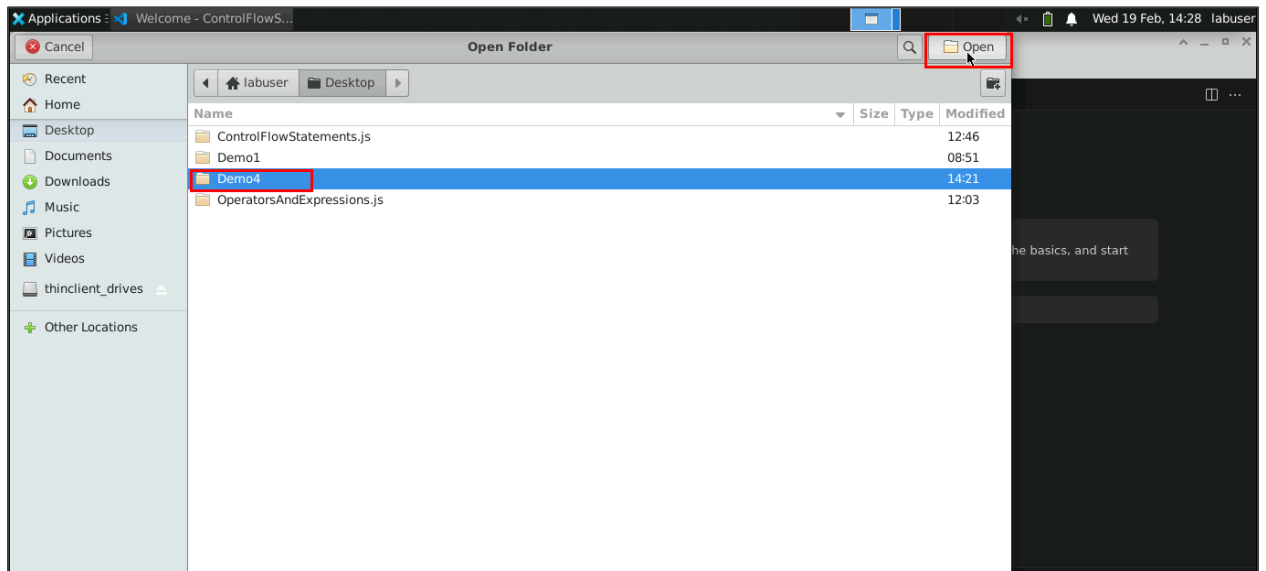
The **Visual Studio Code** opens as shown below:



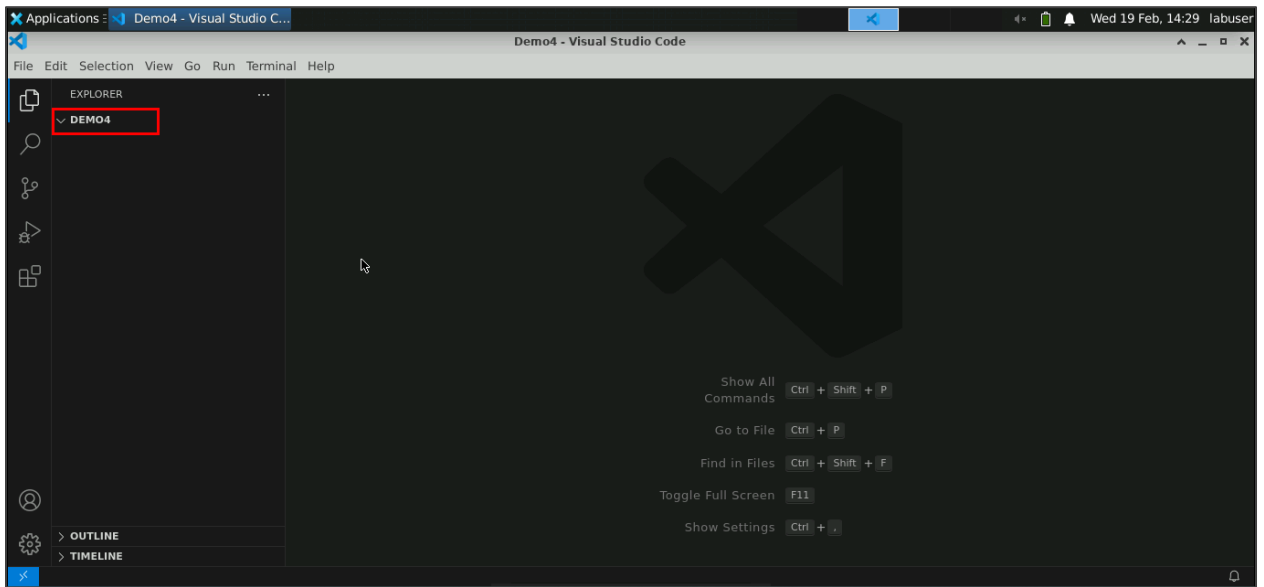
2.2 Click on **File**, then click on **Open Folder...**



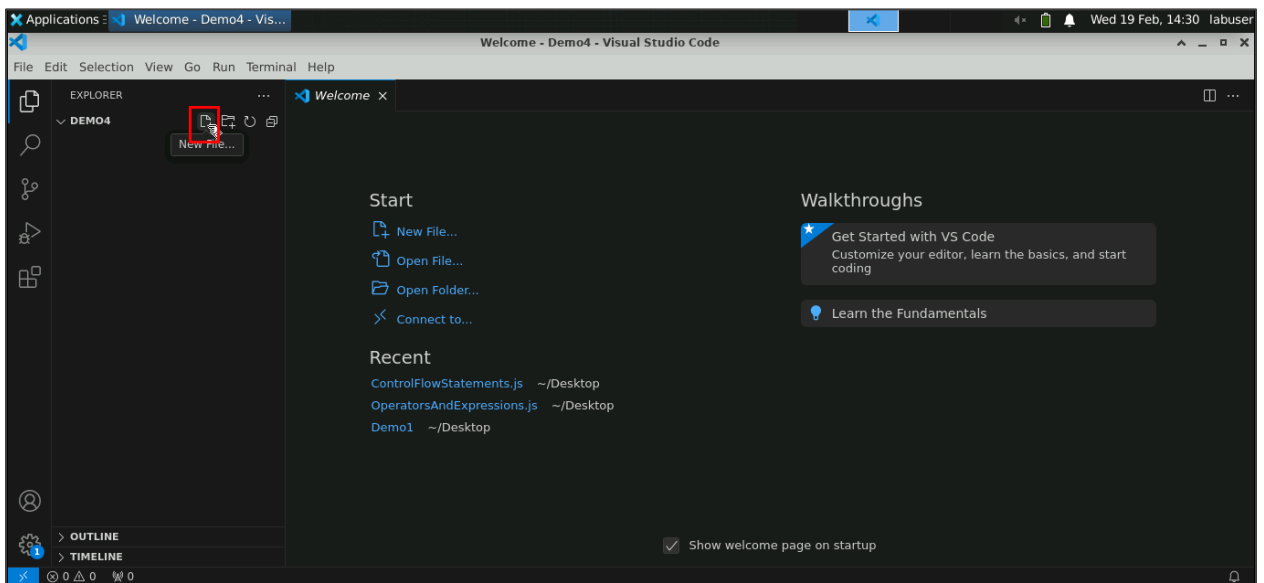
2.3 Select the **Demo4** folder and click on the **Open** icon to open the folder in Visual Studio Code



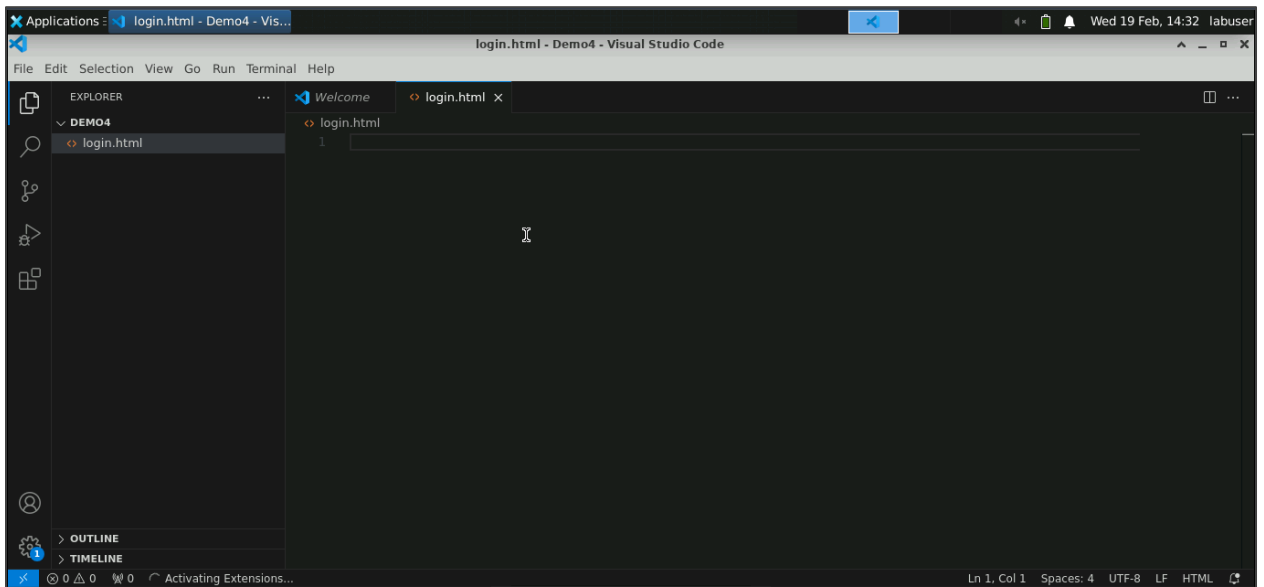
The folder opens in **Visual Studio Code** as shown below:



2.4 Click on the **File** icon to create a new file named **login.html**



The file gets created as shown below:



2.5 Enter the code below and save the file to create a form with validation:

```
<!DOCTYPE html>
<html>
<head>
  <title>JavaScript Form Validation</title>
</head>
<body>
  <h2>Login Form</h2>
  <form method="post" onsubmit="return validation()">
    <input type="text" id="user" placeholder="Username"><br>
    <input type="password" id="pwd" placeholder="Password"><br>
    <input type="submit" value="Submit">
  </form>

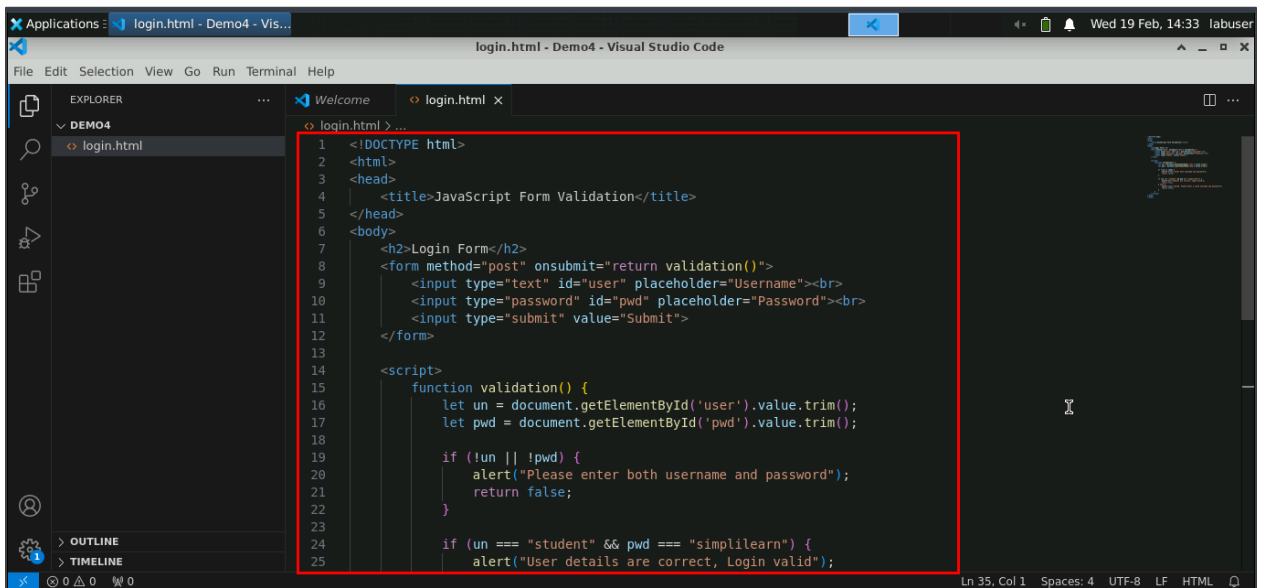
  <script>
    function validation() {
      let un = document.getElementById('user').value.trim();
      let pwd = document.getElementById('pwd').value.trim();

      if (!un || !pwd) {
        alert("Please enter both username and password");
        return false;
      }
    }
  </script>
</body>
</html>
```

```

        if (un === "student" && pwd === "simplilearn") {
            alert("User details are correct, Login valid");
            return true;
        } else {
            alert("Login Failed, Please enter a valid username and password");
            return false;
        }
    }
}
</script>
</body>
</html>

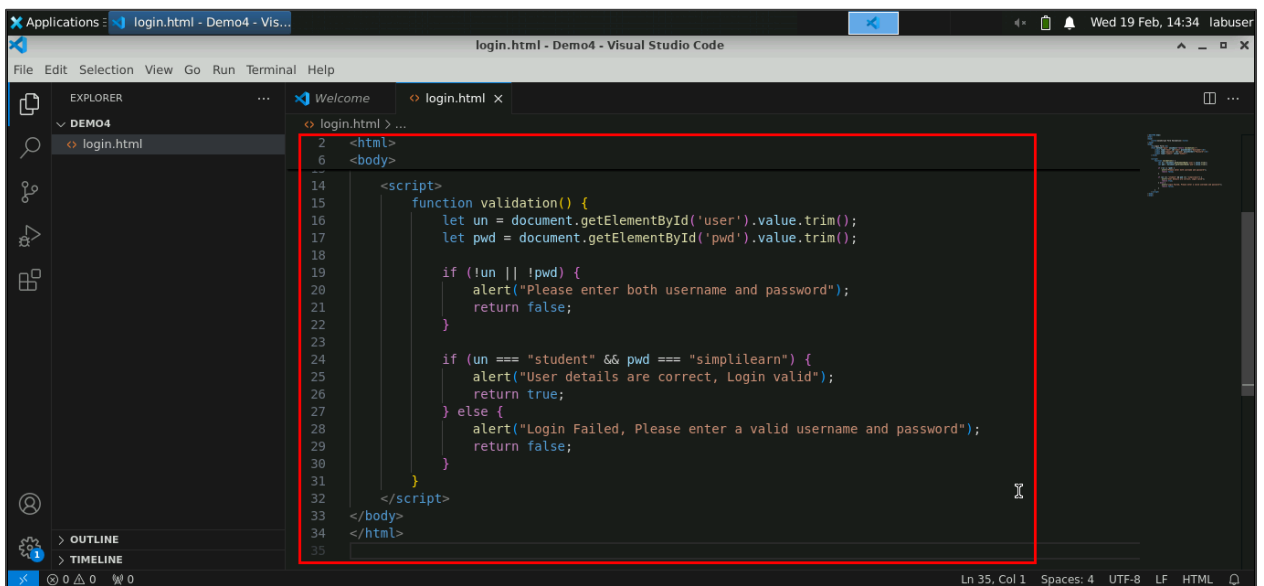
```



```

1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>JavaScript Form Validation</title>
5  </head>
6  <body>
7    <h2>Login Form</h2>
8    <form method="post" onsubmit="return validation()">
9      <input type="text" id="user" placeholder="Username"><br>
10     <input type="password" id="pwd" placeholder="Password"><br>
11     <input type="submit" value="Submit">
12   </form>
13
14   <script>
15     function validation() {
16       let un = document.getElementById('user').value.trim();
17       let pwd = document.getElementById('pwd').value.trim();
18
19       if (!un || !pwd) {
20         alert("Please enter both username and password");
21         return false;
22       }
23
24       if (un === "student" && pwd === "simplilearn") {
25         alert("User details are correct, Login valid");

```

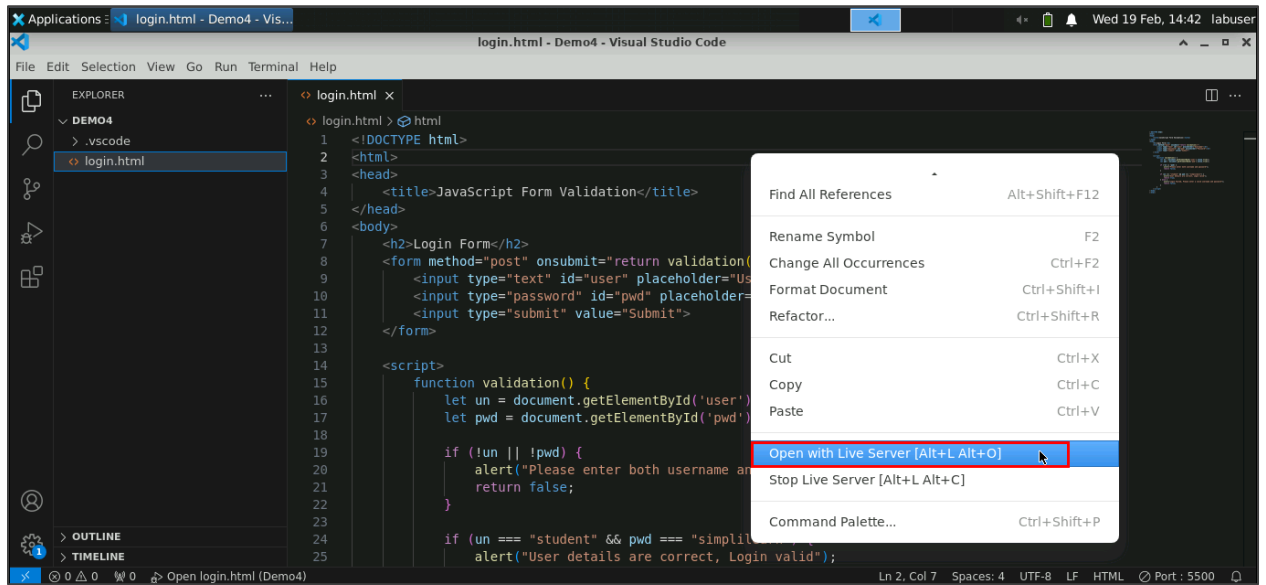


```

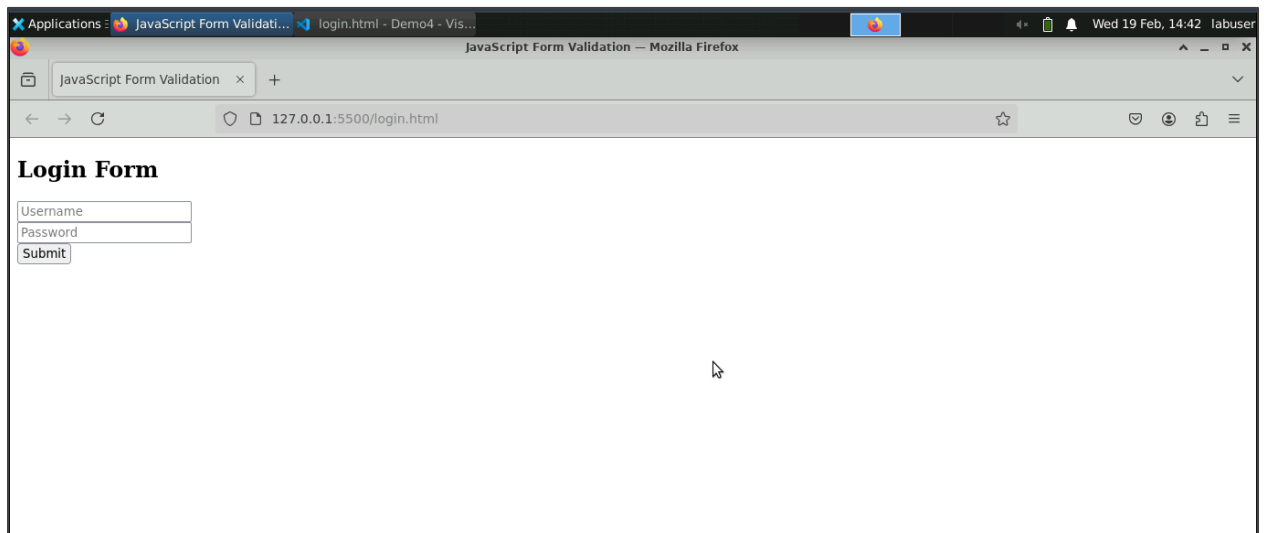
2  <html>
6  <body>
14   <script>
15     function validation() {
16       let un = document.getElementById('user').value.trim();
17       let pwd = document.getElementById('pwd').value.trim();
18
19       if (!un || !pwd) {
20         alert("Please enter both username and password");
21         return false;
22       }
23
24       if (un === "student" && pwd === "simplilearn") {
25         alert("User details are correct, Login valid");
26         return true;
27       } else {
28         alert("Login Failed, Please enter a valid username and password");
29         return false;
30       }
31     }
32   </script>
33 </body>
34 </html>

```

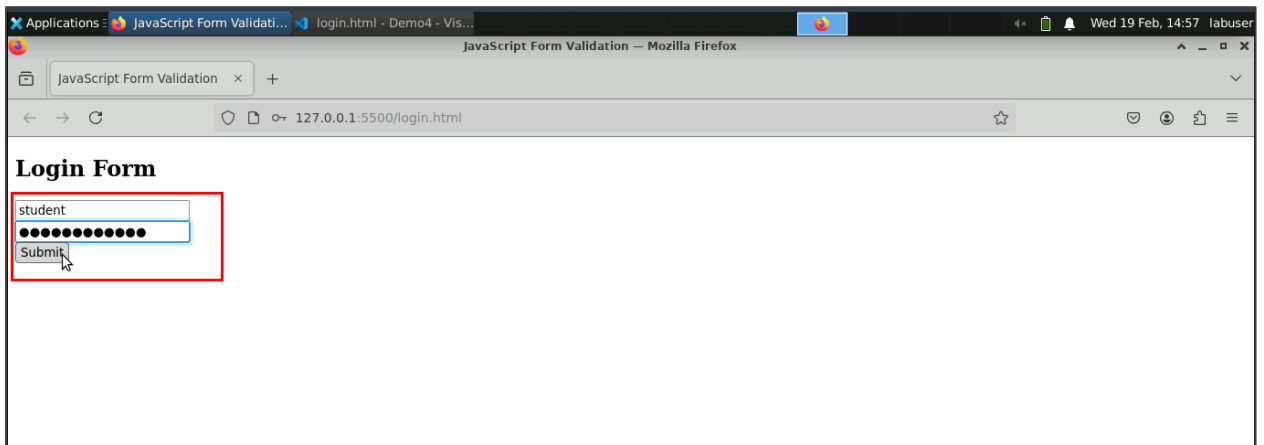
2.6 Right-click on the **login.html** file in the project and select the **Open with Live Server** option



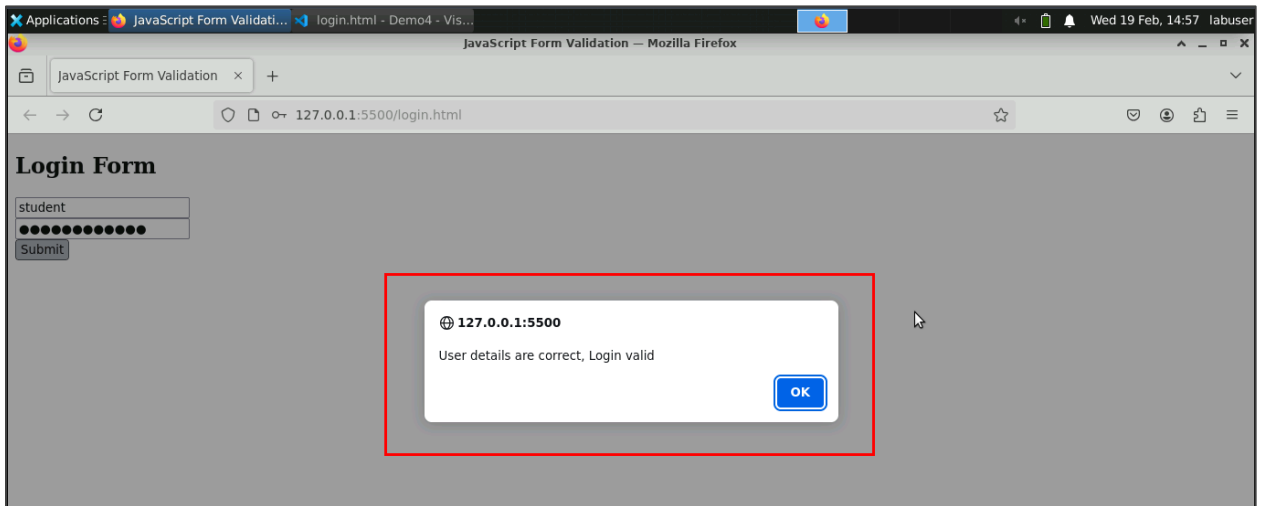
The server starts running as shown below:



2.7 Enter **student** in the username field, enter **simplilearn** in the password field, and click the **Submit** button



The form will validate the data and prompt the user if the details are correct, as shown below:



Note: The login page will be executed only once.

The above code demonstrates a basic HTML document with a JavaScript function for form validation. It validates a login form by checking if the entered username is **student** and the password is **simplilearn**, displaying an alert for a successful login or a failure message for incorrect credentials. Finally, it ensures proper validation logic to enhance user authentication.

By following the above steps, you have successfully implemented JavaScript-based form validation for a login page, ensuring authentication based on specified username and password criteria.