



LAB -2

FULL STACK WEB DEVELOPMENT

BSSE- 6B

Presented by:

Tayyab Janjua (231736)

Presented to:

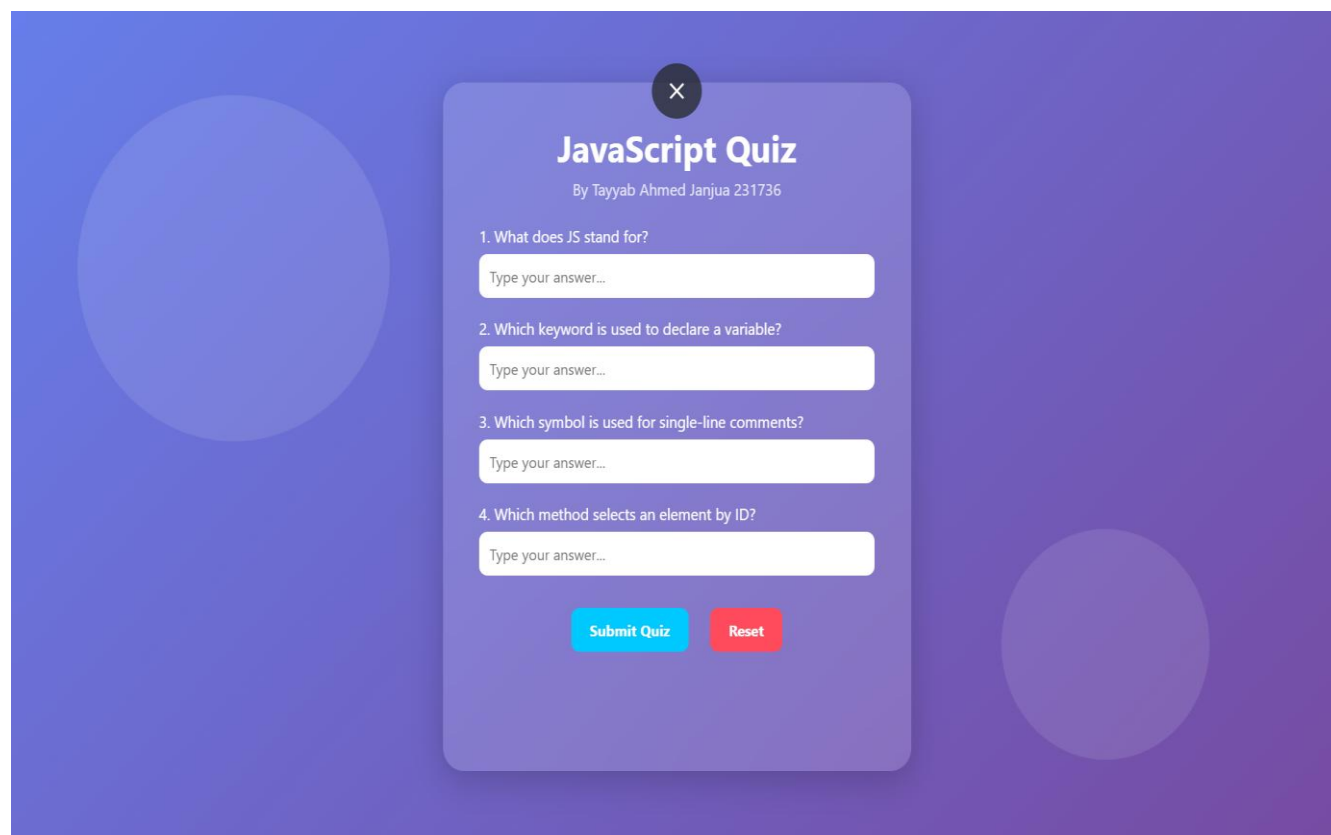
Mr.Shareef Hussain



Github Link for All the tasks: <https://github.com/RajaaTayyab/Full-Stack-Programming-Lab>

Screenshots

Task 1: JavaScript Quiz

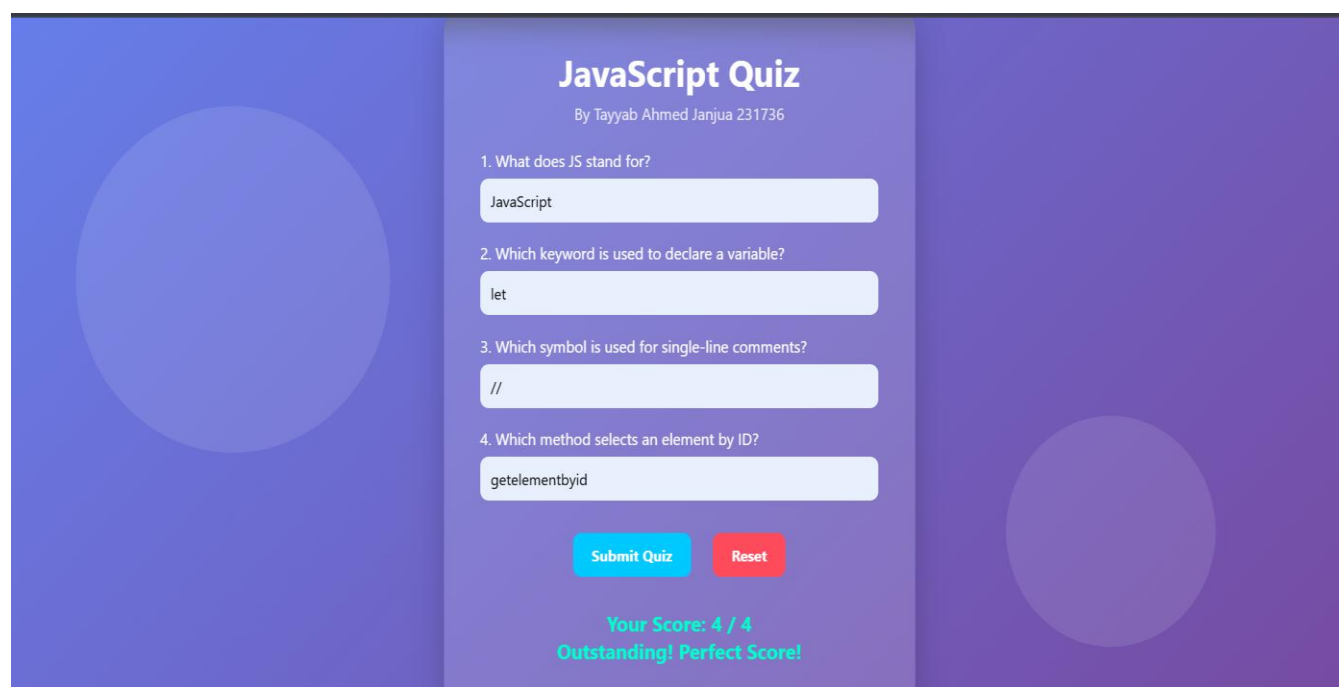


A screenshot of a web application titled "JavaScript Quiz" by Tayyab Ahmed Janjua. The interface is set against a purple gradient background with large, faint circular shapes. The quiz is presented in a central white card with a close button (X) in the top right corner. It contains four questions, each with a corresponding text input field. At the bottom of the card are two buttons: "Submit Quiz" (cyan) and "Reset" (red).

JavaScript Quiz
By Tayyab Ahmed Janjua 231736

1. What does JS stand for?
Type your answer...
2. Which keyword is used to declare a variable?
Type your answer...
3. Which symbol is used for single-line comments?
Type your answer...
4. Which method selects an element by ID?
Type your answer...

Submit Quiz **Reset**



A second screenshot of the same "JavaScript Quiz" interface, but now showing the completed state. The input fields contain the answers: "JavaScript", "let", "//", and "getelementbyid". Below the questions, the score is displayed as "Your Score: 4 / 4" and "Outstanding! Perfect Score!". The "Submit Quiz" and "Reset" buttons remain at the bottom.

JavaScript Quiz
By Tayyab Ahmed Janjua 231736

1. What does JS stand for?
JavaScript
2. Which keyword is used to declare a variable?
let
3. Which symbol is used for single-line comments?
//
4. Which method selects an element by ID?
getelementbyid

Submit Quiz **Reset**

Your Score: 4 / 4
Outstanding! Perfect Score!

JavaScript Quiz

By Tayyab Ahmed Janjua 231736

1. What does JS stand for?

JavaScript

2. Which keyword is used to declare a variable?

Type your answer...

3. Which symbol is used for single-line comments?

//

4. Which method selects an element by ID?

getelementbyid

Submit Quiz

Reset

Your Score: 3 / 4
Great effort! Keep improving!

JavaScript Quiz

By Tayyab Ahmed Janjua 231736

1. What does JS stand for?

JavaScript

2. Which keyword is used to declare a variable?

Type your answer...

3. Which symbol is used for single-line comments?

Type your answer...

4. Which method selects an element by ID?

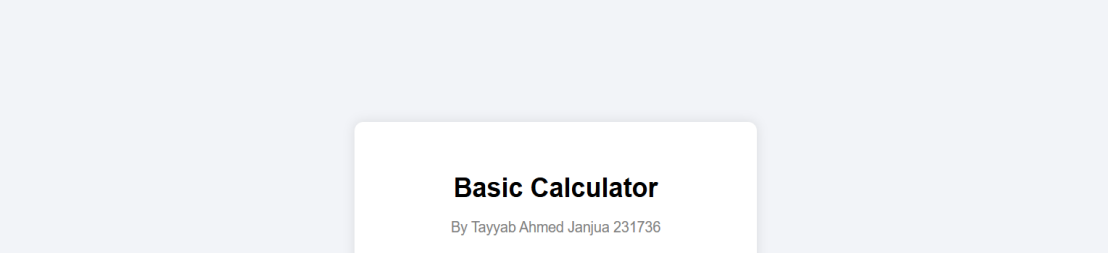
Type your answer...

Submit Quiz

Reset

Your Score: 1 / 4
Don't worry! Practice makes perfect!

Task 2: Basic Calculator



The screenshot displays a web browser window with the address bar showing the URL: 127.0.0.1:5500/Lab_02-JS-Interactivity/Task%20index.html. The browser's toolbar includes navigation icons (back, forward, refresh) and a star icon for bookmarks. The page content is a 'Basic Calculator' application. It features a title 'Basic Calculator' and a subtitle 'By Tayyab Ahmed Janjua 231736'. The calculator interface consists of two input fields for numbers, a dropdown menu for operations (currently showing 'Addition (+)'), a blue 'Calculate' button, and a grey box for the result.

The screenshot displays a web browser window with the address bar showing the URL: 127.0.0.1:5500/Lab_02-JS-Interactivity/Task%202/index.html. The browser's tab is labeled 'School'. The main content area features a 'Basic Calculator' application. The calculator has a title 'Basic Calculator' and a subtitle 'By Tayyab Ahmed Janjua 231736'. It consists of two input fields: the first contains '10' and the second contains '20'. Between these fields is a dropdown menu currently showing 'Addition (+)'. Below the input fields is a prominent blue button labeled 'Calculate'. At the bottom of the calculator interface is a grey rectangular box displaying the text 'Result: 30'.

Basic Calculator

By Tayyab Ahmed Janjua 231736

Division (+)

▼

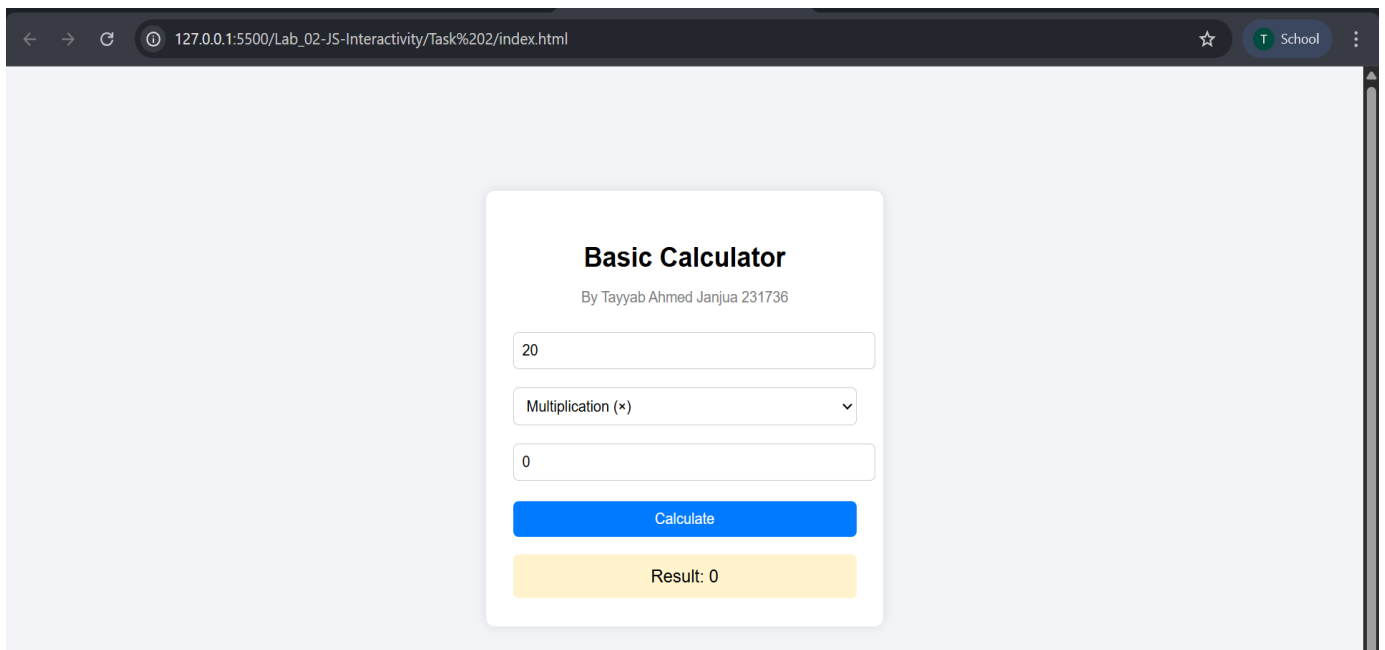
Calculate

Result: 1.5

Bonus: Changing Color on 0 and negative values

```
39     if (result > 0) {
40         resultBox.style.backgroundColor = "#d4edda";
41     }
42     else if (result < 0) {
43         resultBox.style.backgroundColor = "#f8d7da";
44     }
45     else {
46         resultBox.style.backgroundColor = "#fff3cd";
47     }
48 }
```

0 value



Basic Calculator

By Tayyab Ahmed Janjua 231736

20

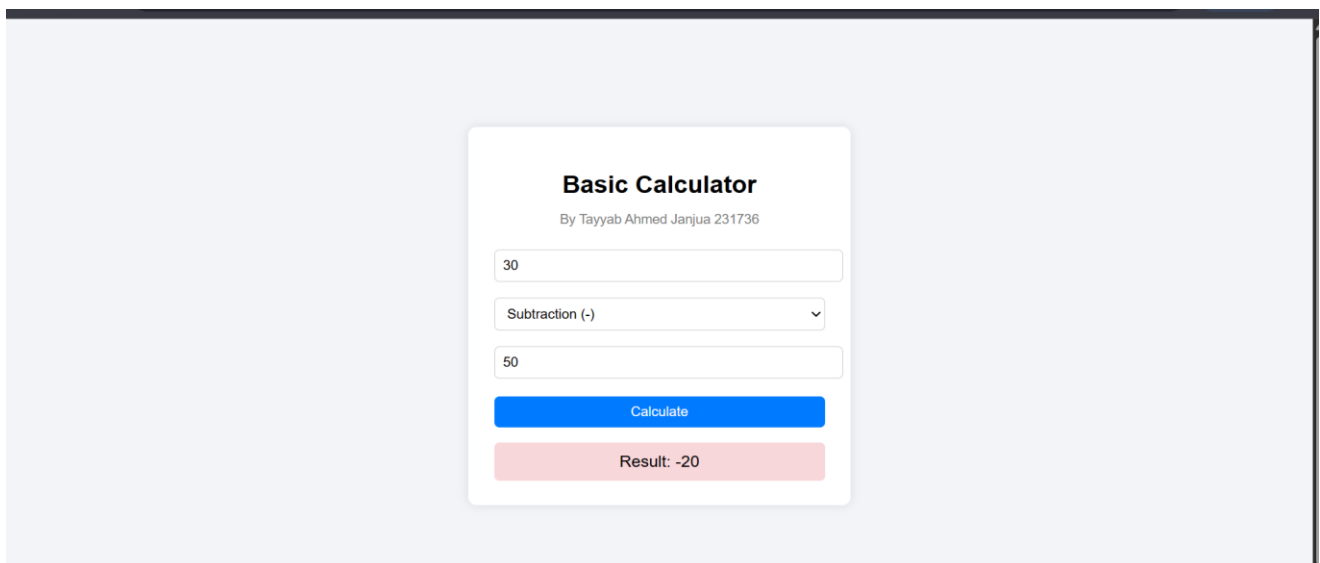
Multiplication (*)

0

Calculate

Result: 0

Negative Value



Basic Calculator

By Tayyab Ahmed Janjua 231736

30

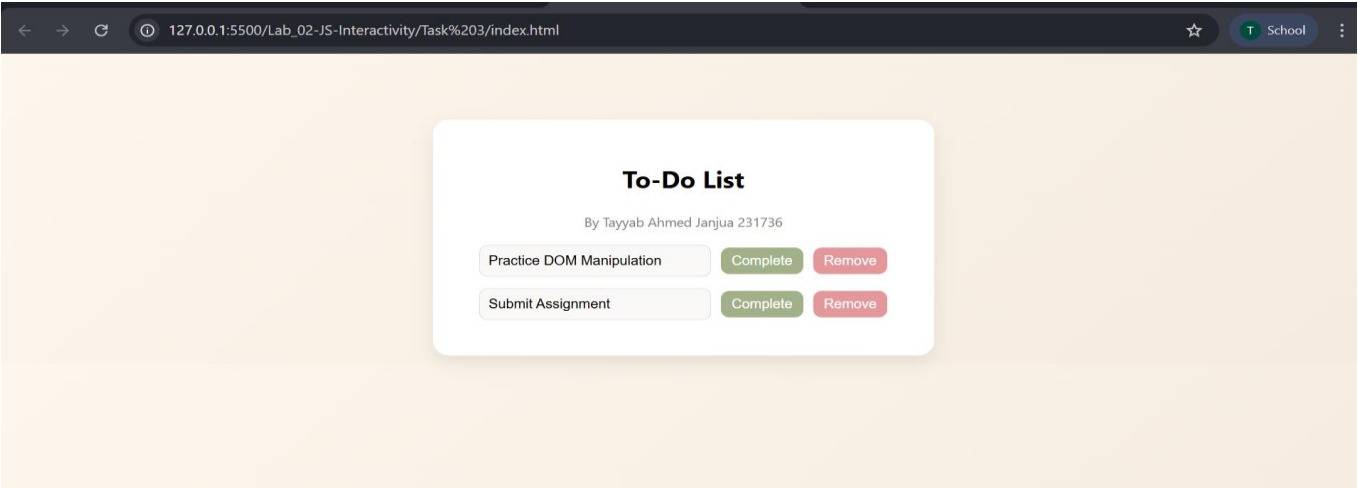
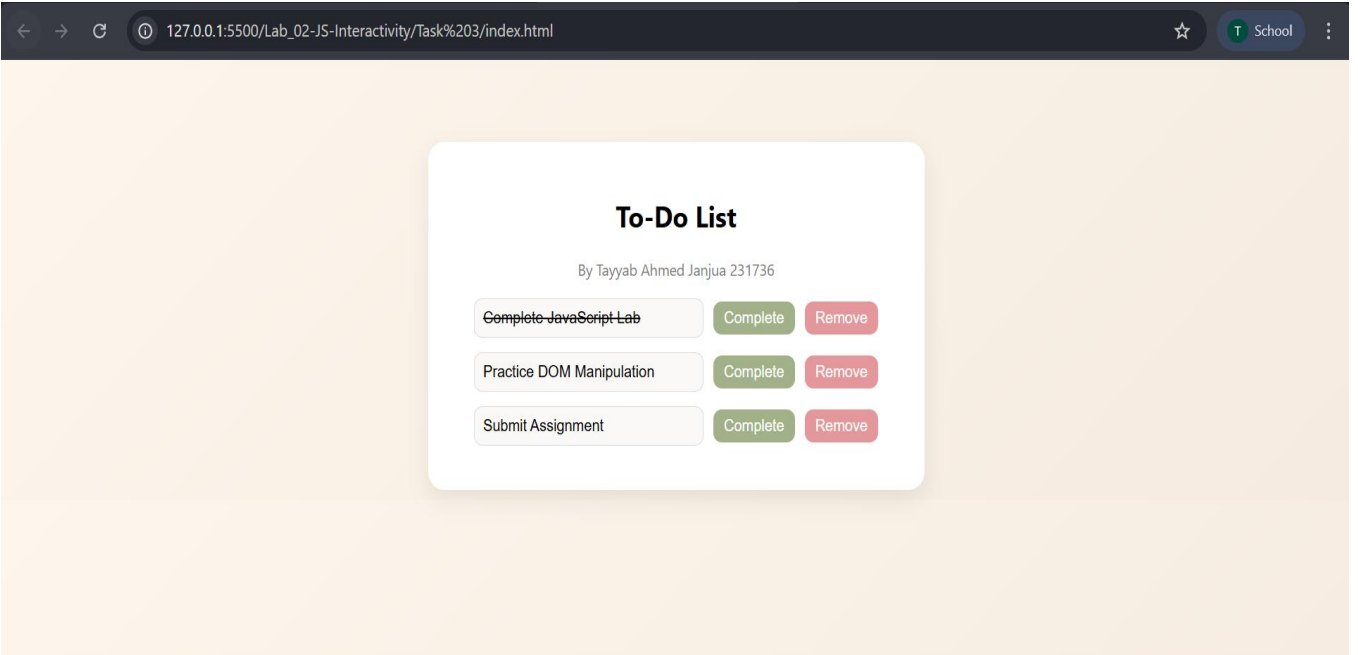
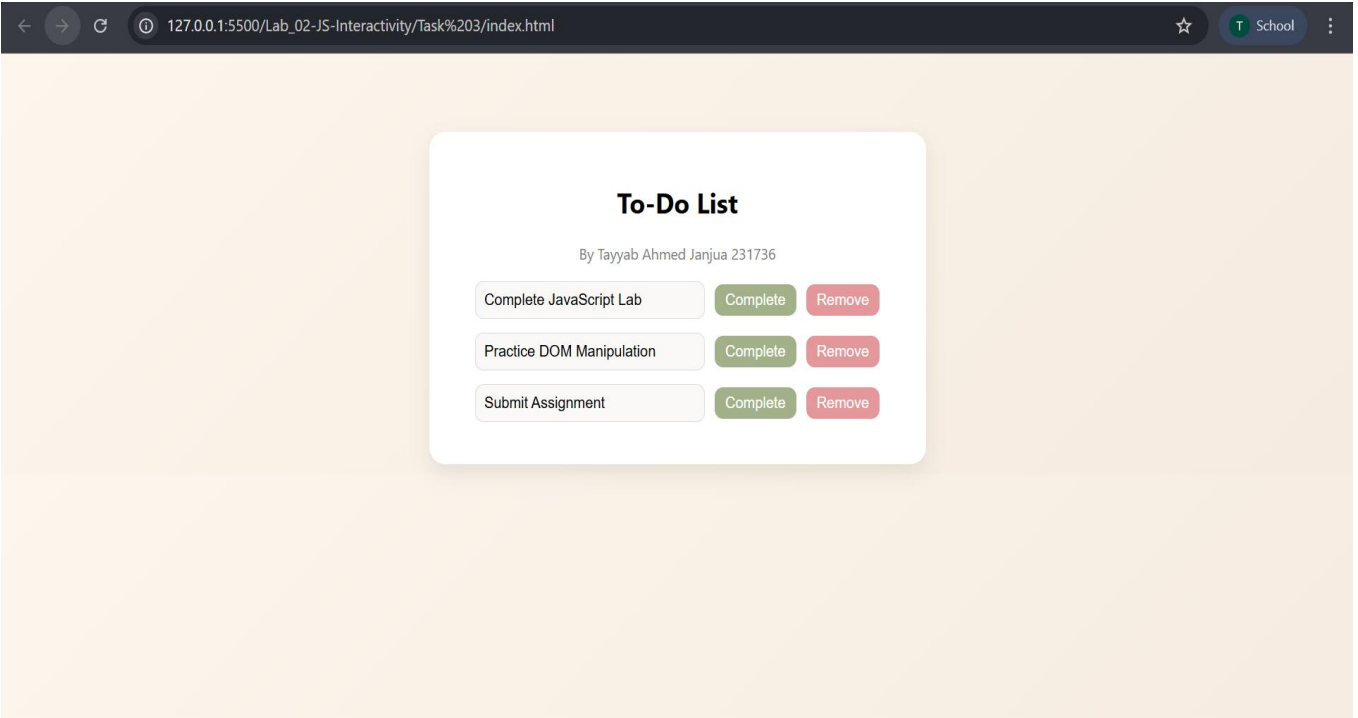
Subtraction (-)

50

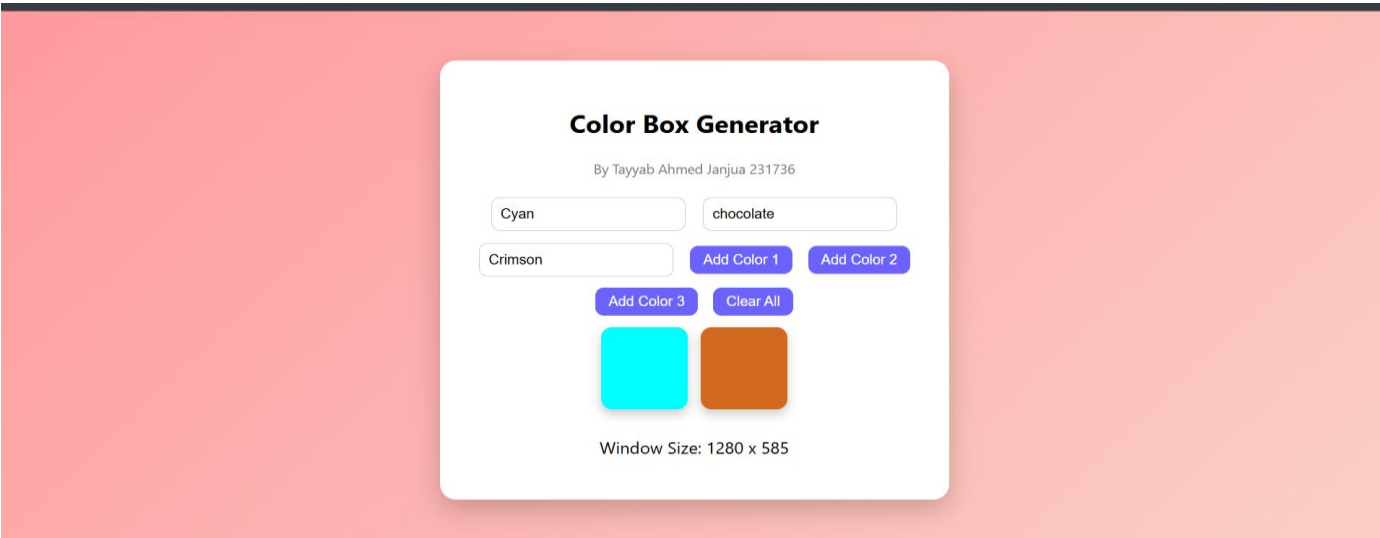
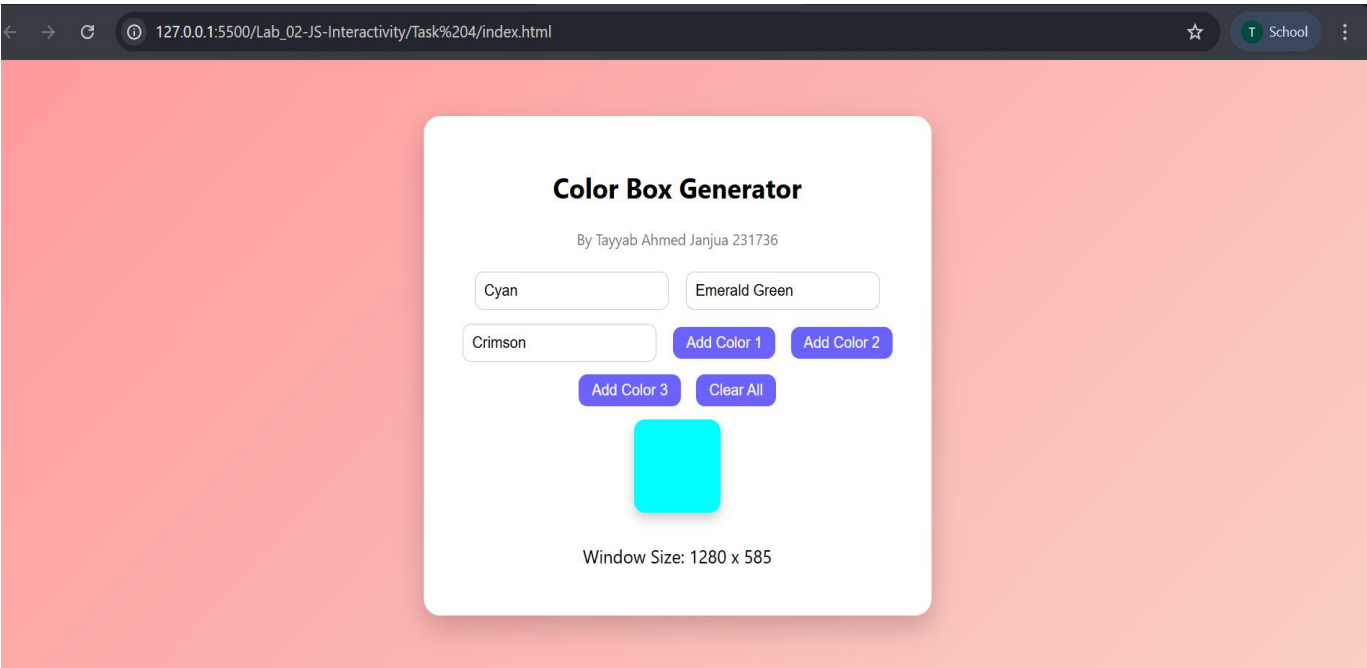
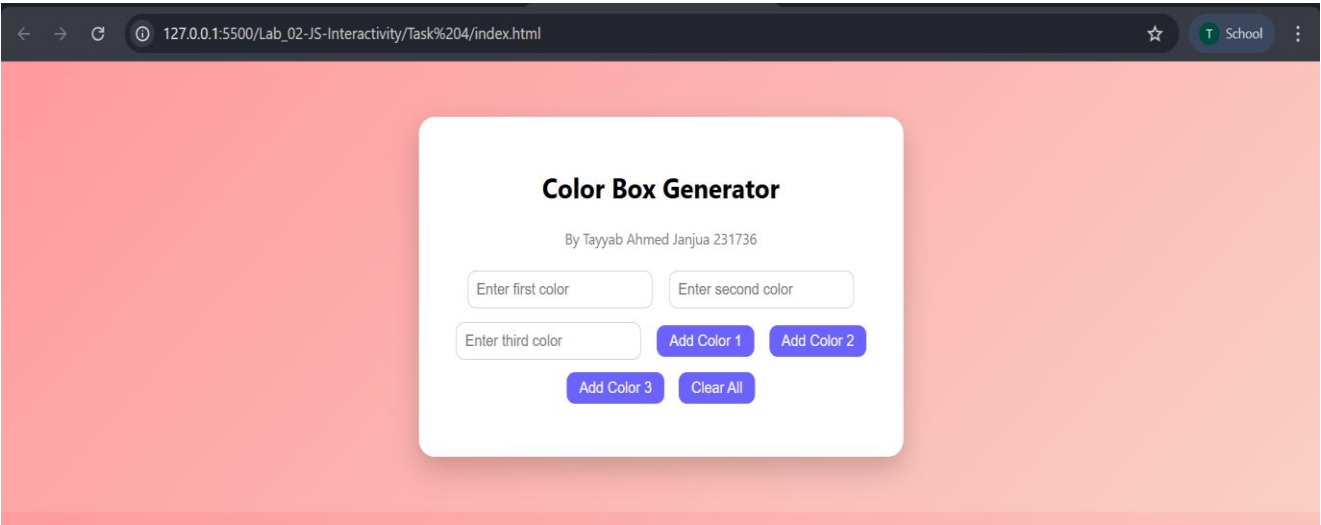
Calculate

Result: -20

Task 3: Simple Todo list

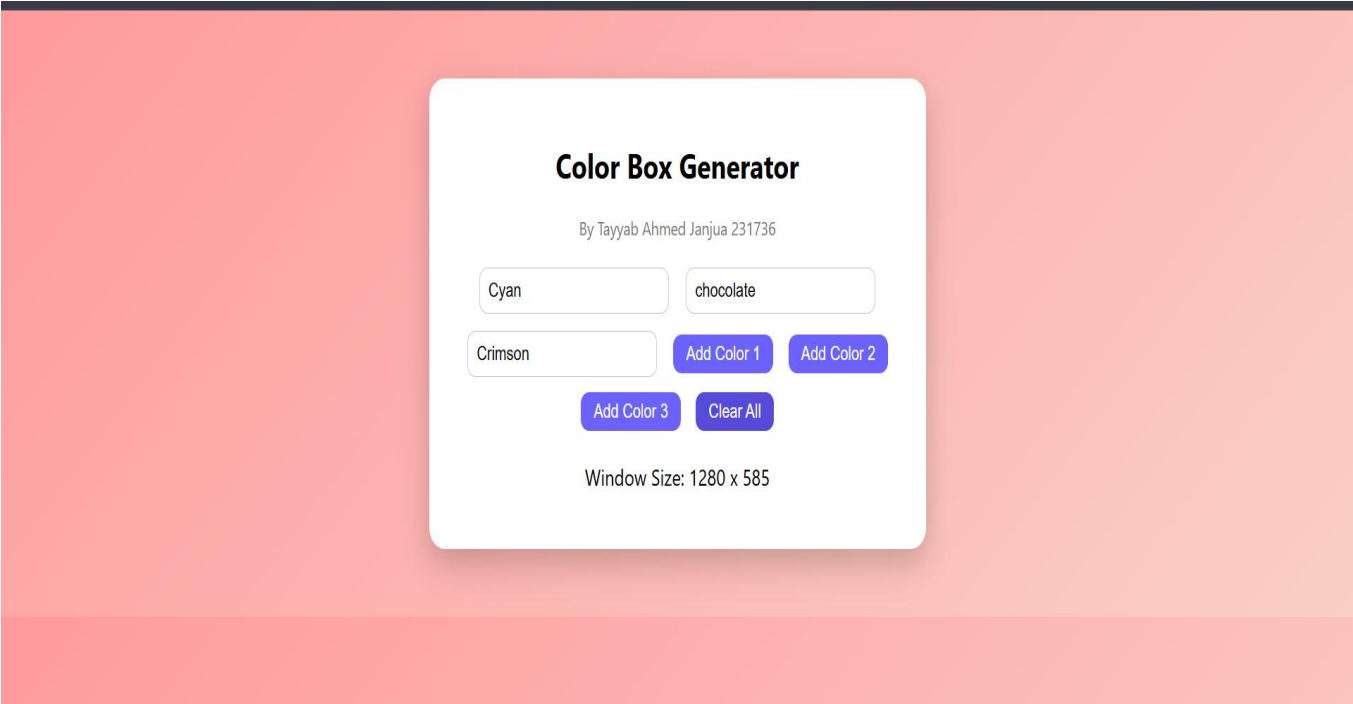
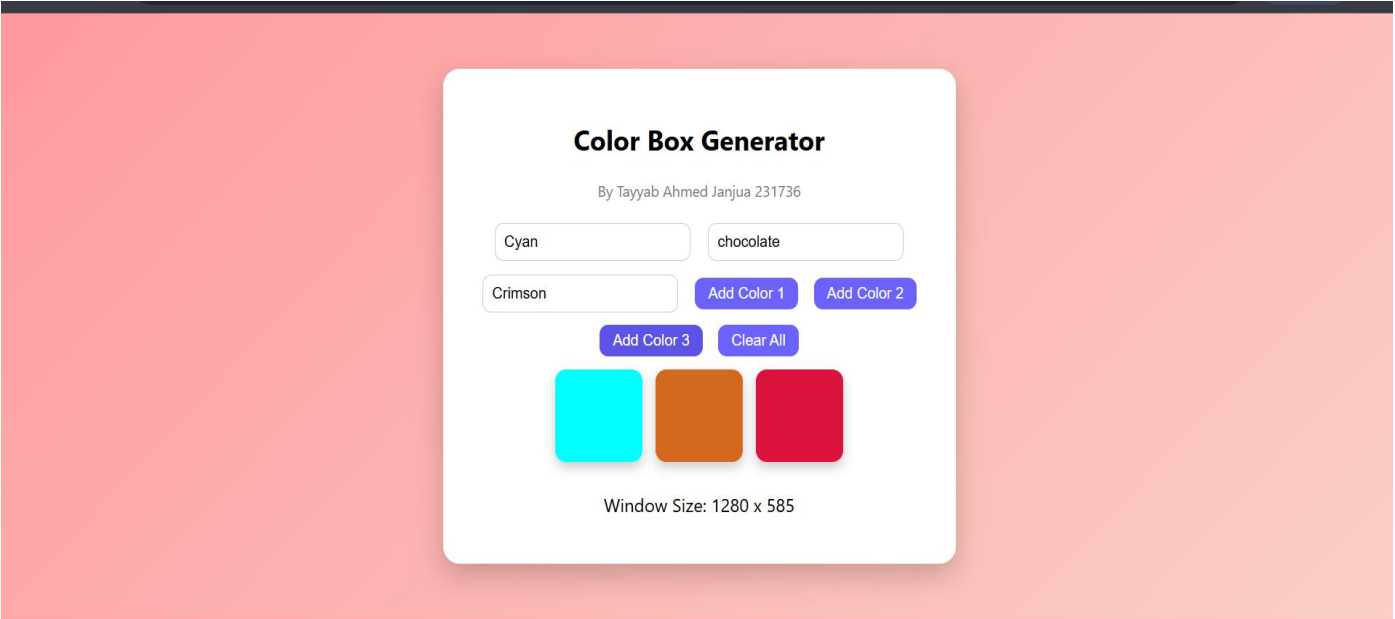


Task 4: Color Box Generator

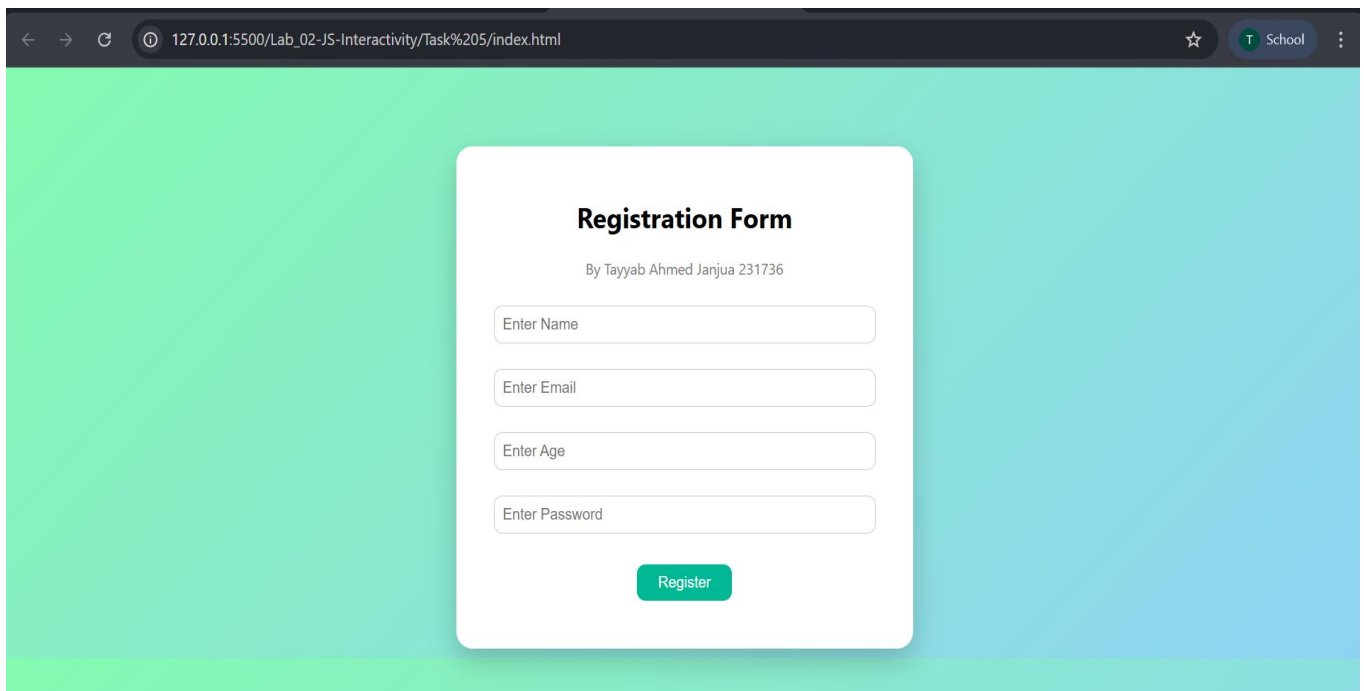


Bonus: Get Element by browser info

```
9
10 // Bonus: BOM Info
11 document.getElementById("browserInfo").innerHTML =
12 "Window Size: " + window.innerWidth + " x " + window.innerHeight;
13
14
```

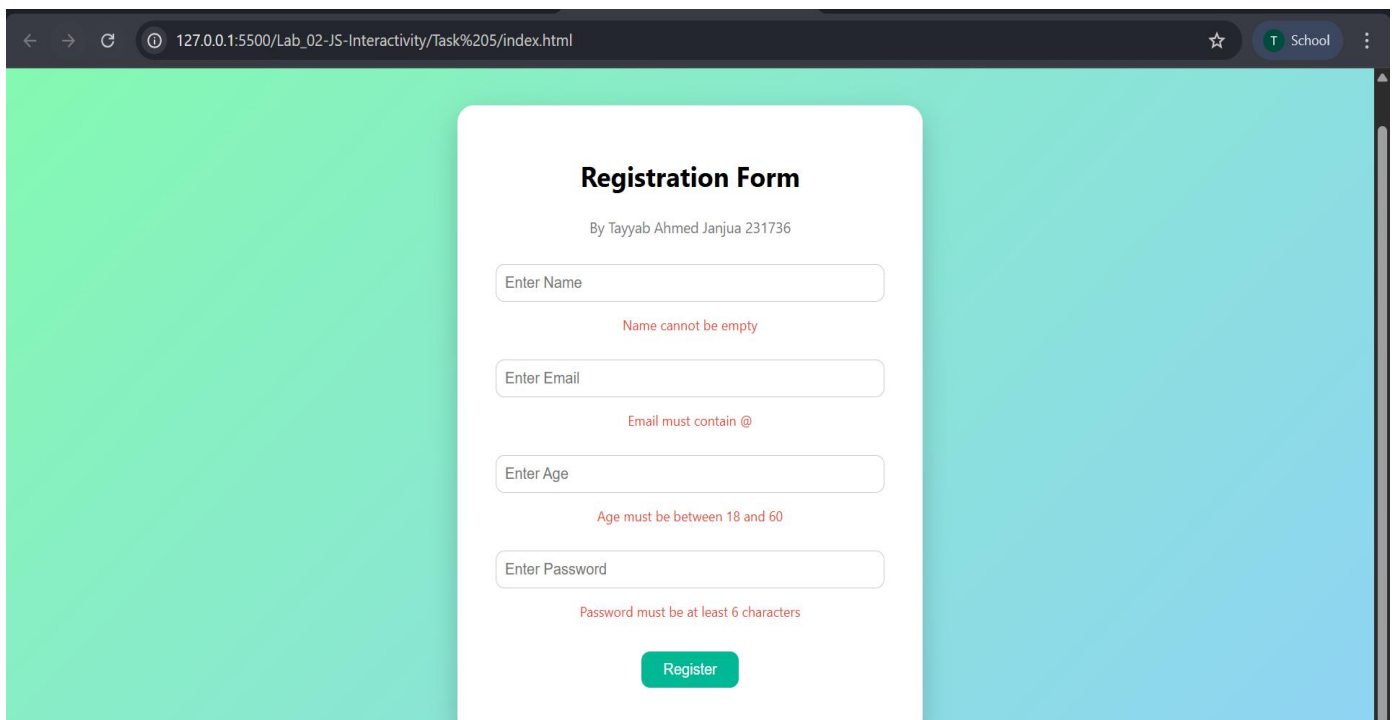


Task 5: Form Validation



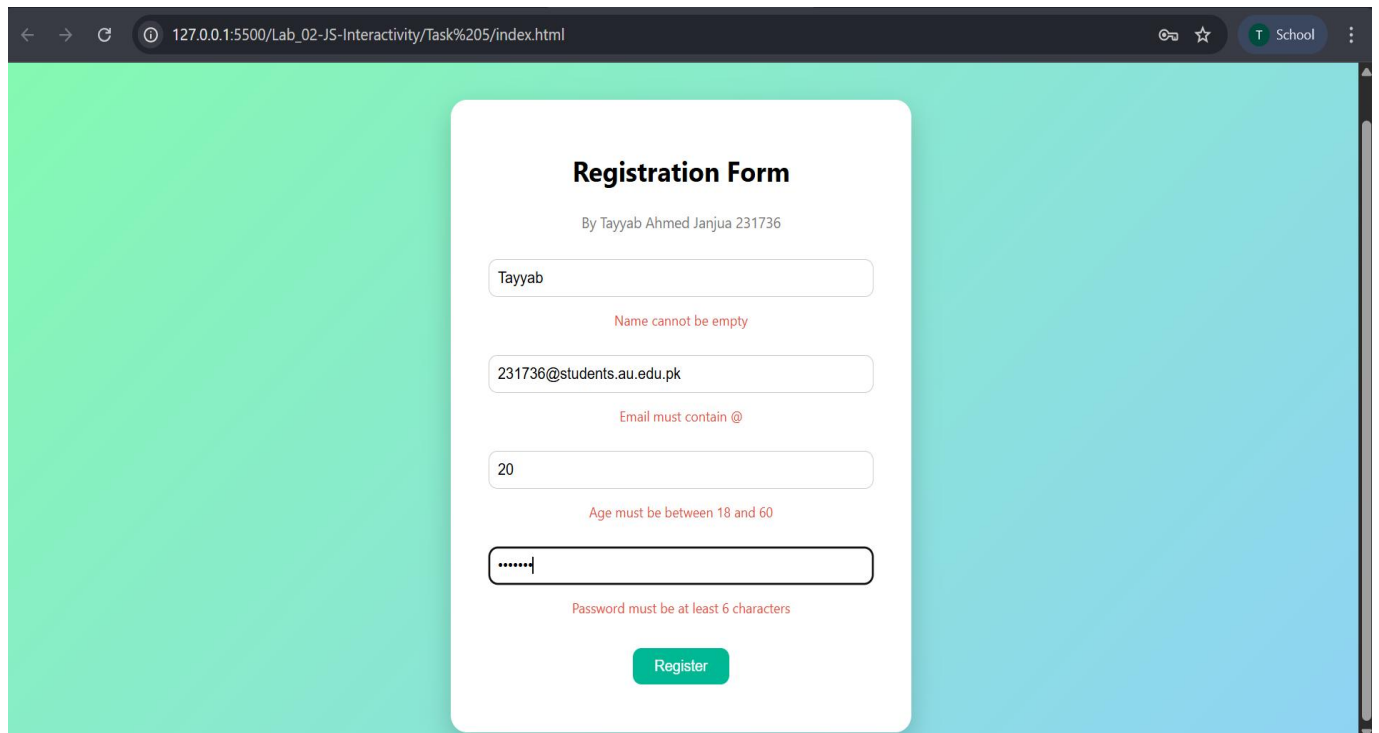
The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/Lab_02-JS-Interactivity/Task%205/index.html". The page has a light blue gradient background. In the center, there is a white rounded rectangle containing the "Registration Form". The form title is "Registration Form" in bold black text, followed by the text "By Tayyab Ahmed Janjua 231736". Below this, there are four input fields with placeholder text: "Enter Name", "Enter Email", "Enter Age", and "Enter Password". At the bottom of the form is a green "Register" button.

Validation Test



The screenshot shows the same registration form as before, but with validation error messages displayed below each input field. The errors are in red text: "Name cannot be empty" below the Name field, "Email must contain @" below the Email field, "Age must be between 18 and 60" below the Age field, and "Password must be at least 6 characters" below the Password field. The "Register" button remains at the bottom.

Form with Correct Details



A screenshot of a web browser displaying a registration form. The browser's address bar shows the URL "127.0.0.1:5500/Lab_02-JS-Interactivity/Task%205/index.html". The form is titled "Registration Form" and is attributed to "By Tayyab Ahmed Janjua 231736". It contains four input fields: a name field with "Tayyab", an email field with "231736@students.au.edu.pk", an age field with "20", and a password field with "*****". Below each field is a red error message: "Name cannot be empty", "Email must contain @", "Age must be between 18 and 60", and "Password must be at least 6 characters". A green "Register" button is at the bottom of the form.

Registration Form

By Tayyab Ahmed Janjua 231736

Tayyab

Name cannot be empty

231736@students.au.edu.pk

Email must contain @

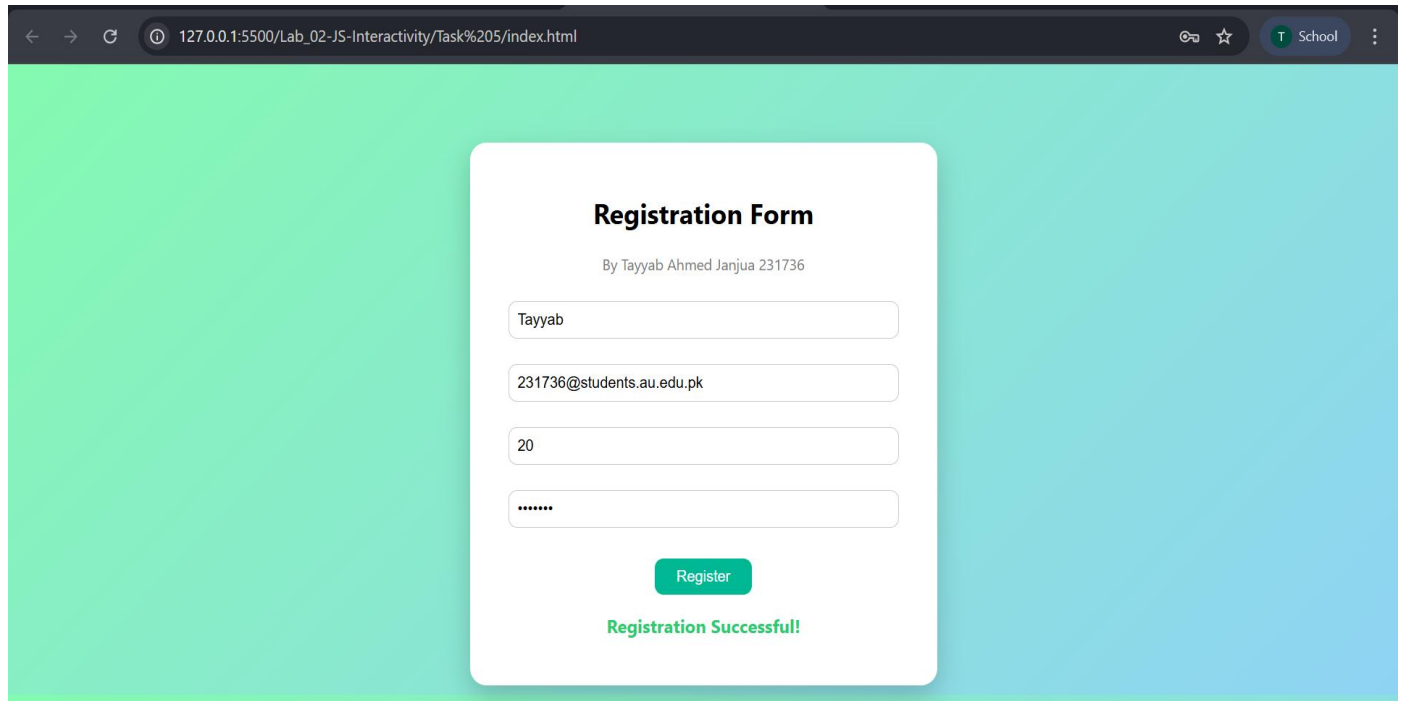
20

Age must be between 18 and 60

Password must be at least 6 characters

Register

Completion



A screenshot of the same web browser showing the registration form after successful completion. The form fields now contain the same data as before, but the error messages are gone. A green "Register" button is still present. Below the button, the text "Registration Successful!" is displayed in green.

Registration Form

By Tayyab Ahmed Janjua 231736

Tayyab

231736@students.au.edu.pk

20

Register

Registration Successful!

Bonus: Generate `prompt()` or `alert()`

```
41  ✓   if (valid) {  
42      // BONUS: confirm() before submission  
43  ✓   if (confirm("Are you sure you want to submit the form?")) {  
44        
45      document.getElementById("successMessage").innerHTML = "Registration Successful!";  
46        
47      alert("Welcome " + name + "! Your form has been submitted successfully.");  
48        
49      }  
50  }  
51  }  
52
```

127.0.0.1:5500 says

Are you sure you want to submit?

OK

Cancel

127.0.0.1:5500 says

Welcome Tayyab!

OK