



LAB TASK 2

FULL STACK WEB DEVELOPMENT

BSSE- 6B

Presented by:

Tayyab Janjua (231736)

Presented to:

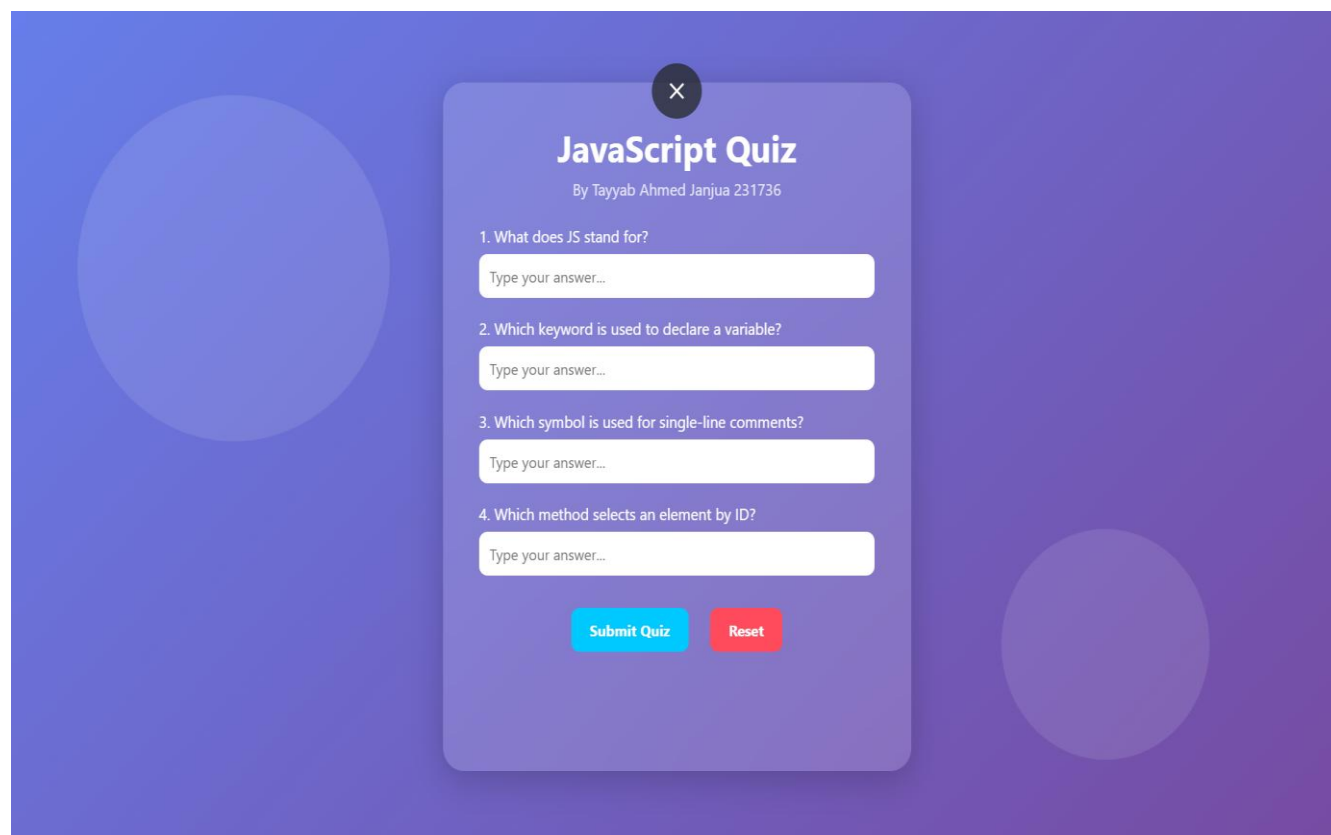
Mr.Shareef Hussain



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 231736. 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) at the top. It contains four questions, each with a corresponding text input field. The questions are: 1. What does JS stand for? 2. Which keyword is used to declare a variable? 3. Which symbol is used for single-line comments? 4. Which method selects an element by ID? At the bottom of the card are two buttons: "Submit Quiz" (cyan) and "Reset" (red).

JavaScript Quiz
By Tayyab Ahmed Janjua 231736

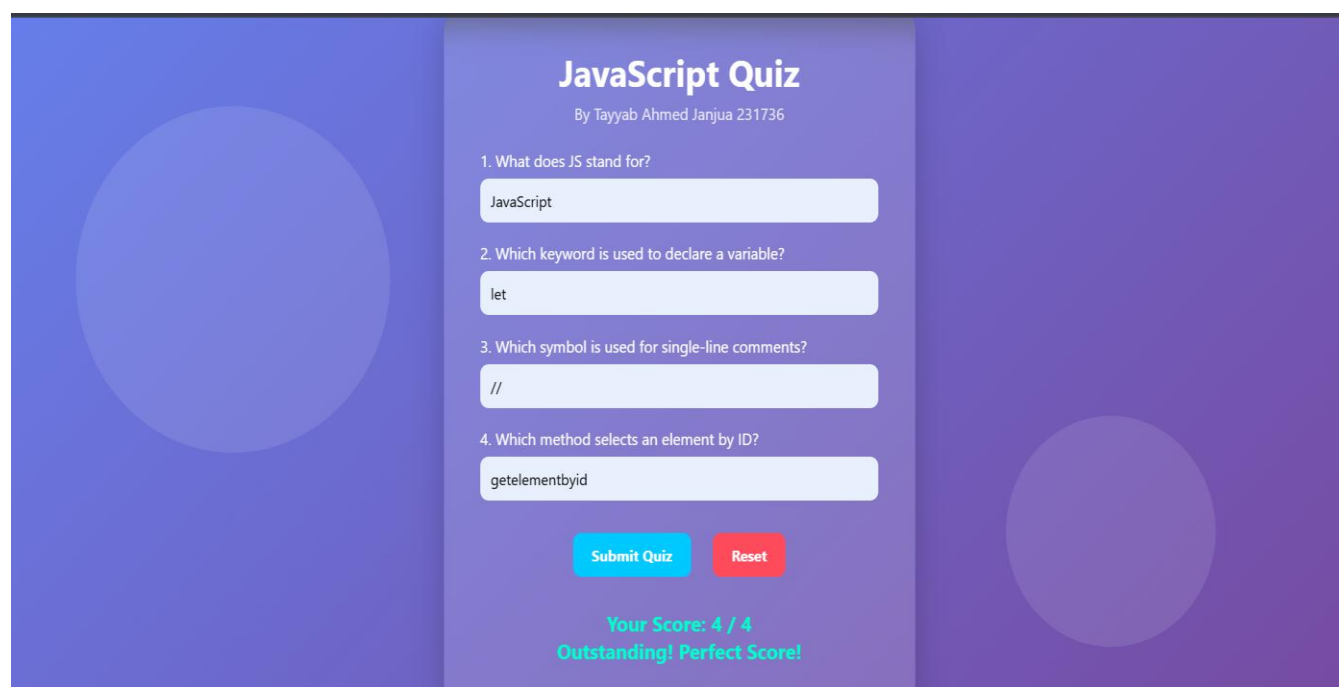
1. What does JS stand for?
Type your answer...

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 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?

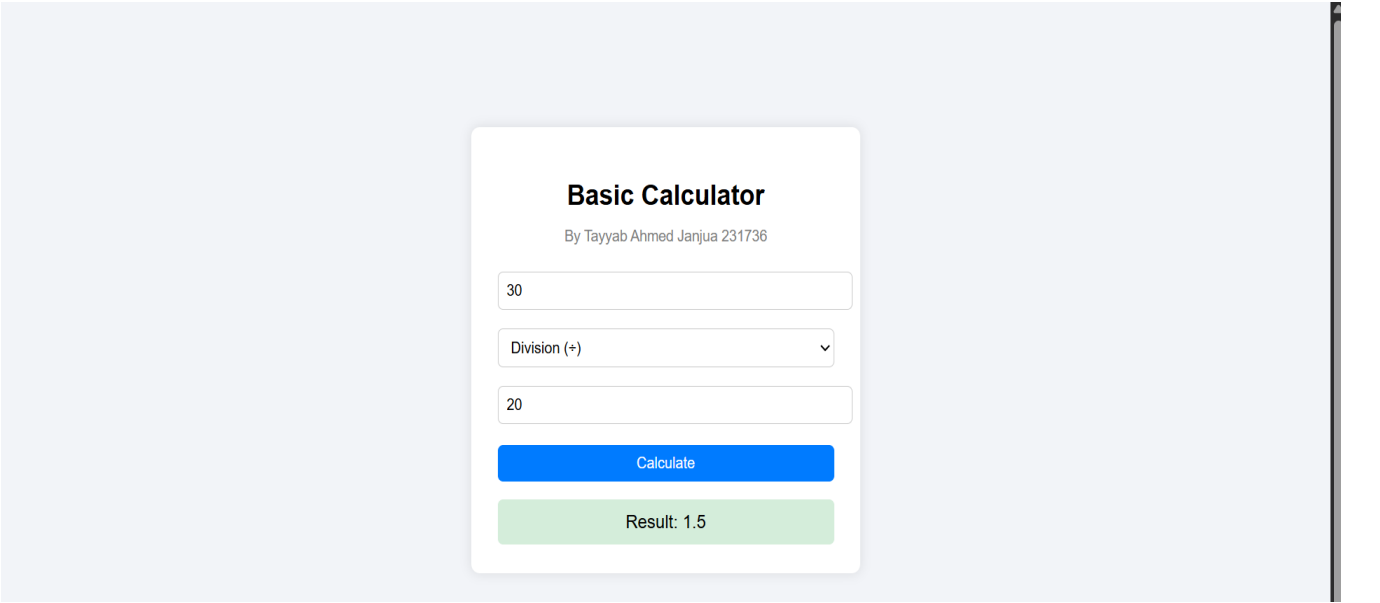
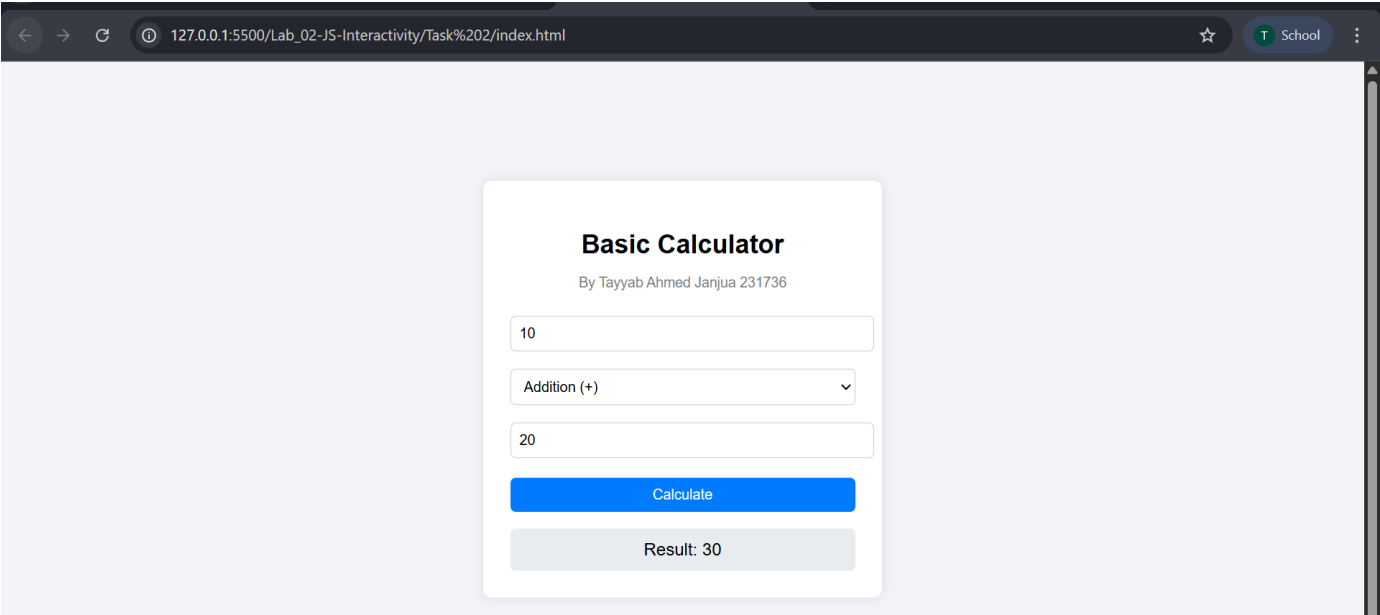
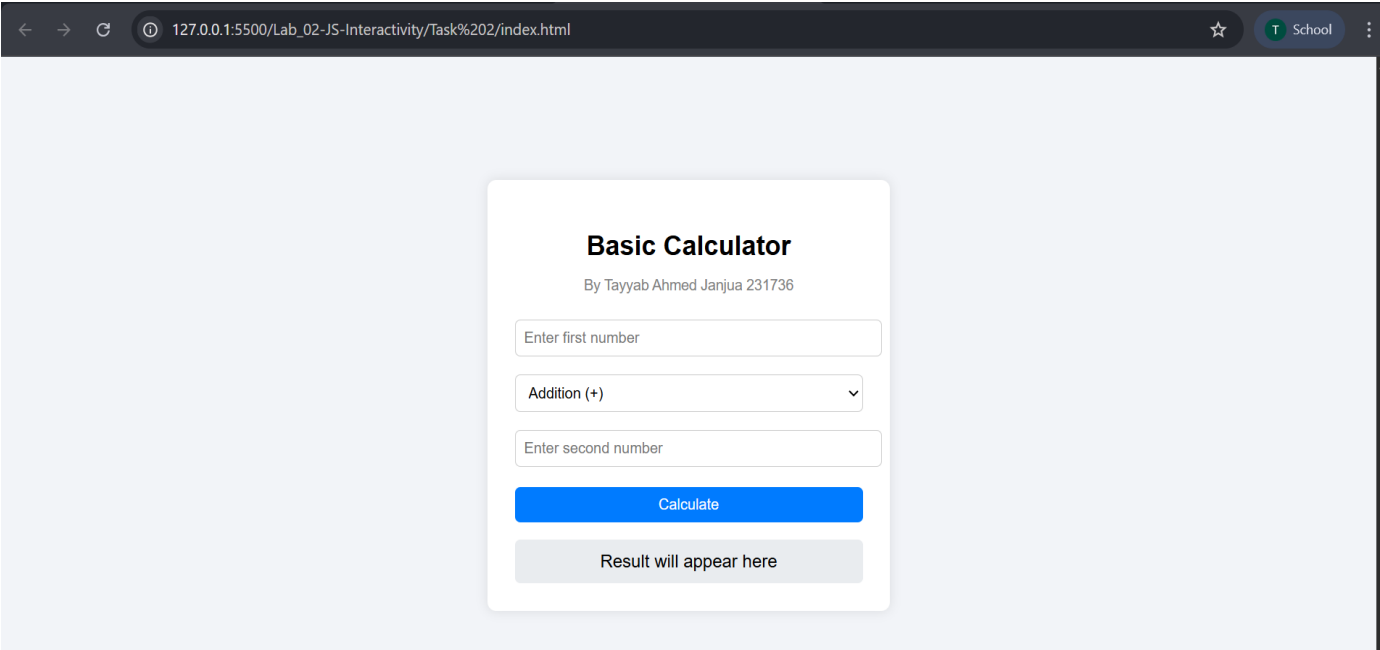
Type your answer...

Submit Quiz

Reset

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

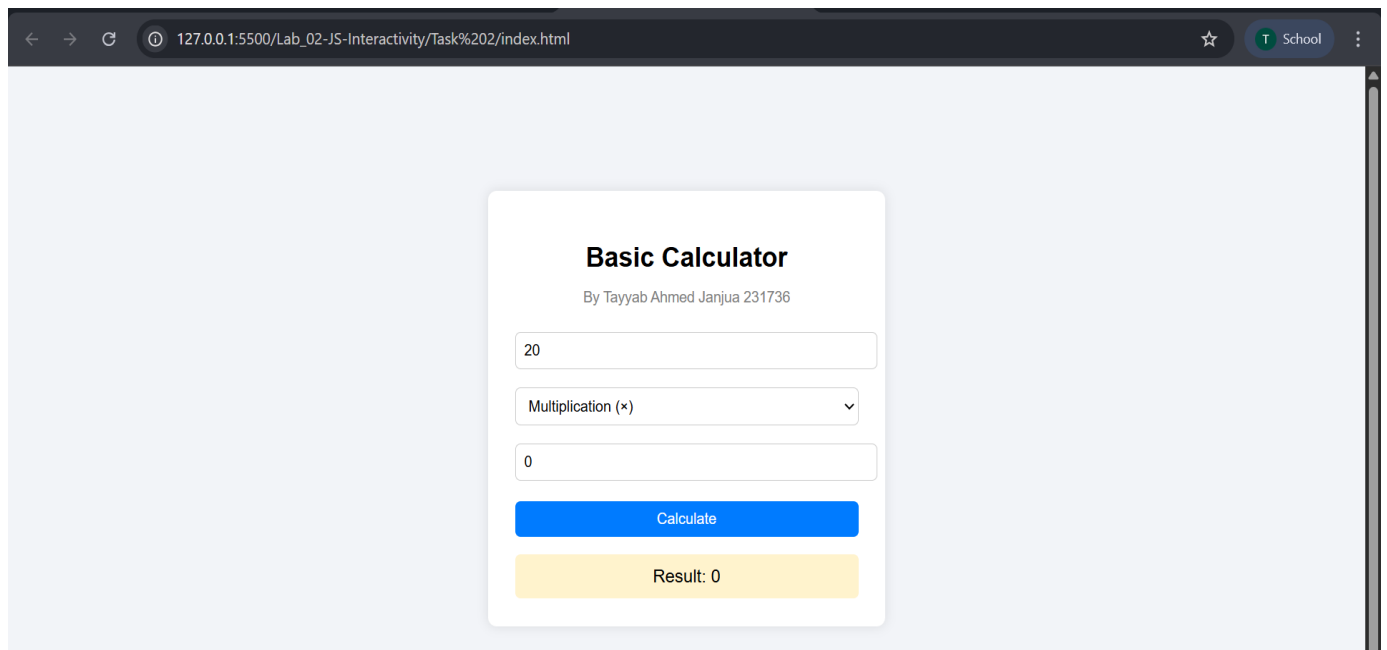
Task 2: Basic Calculator



Bonus: Changing Color on 0 and negative values

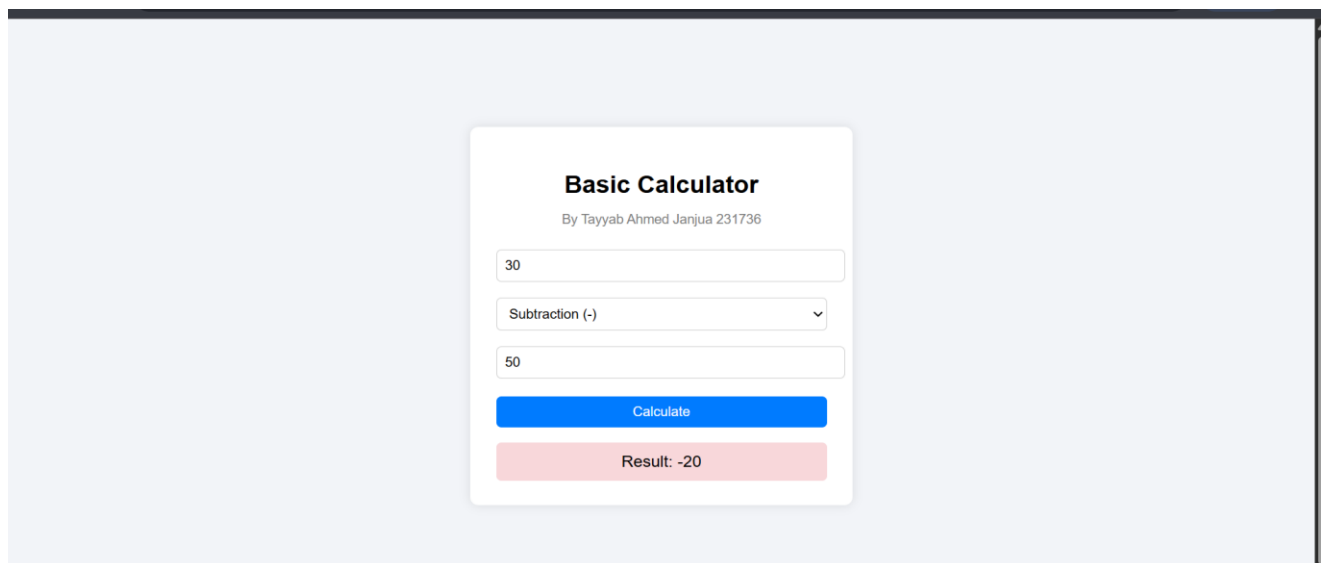
```
39     if (result > 0) {
40         resultBox.style.backgroundColor = "#d4edda";
41     }
42     else if (result < 0) {
43         resultBox.style.backgroundColor = "#f8d7da";
44     }
45     else {
46         resultBox.style.backgroundColor = "#fff3cd";
47     }
48 }
```

0 value



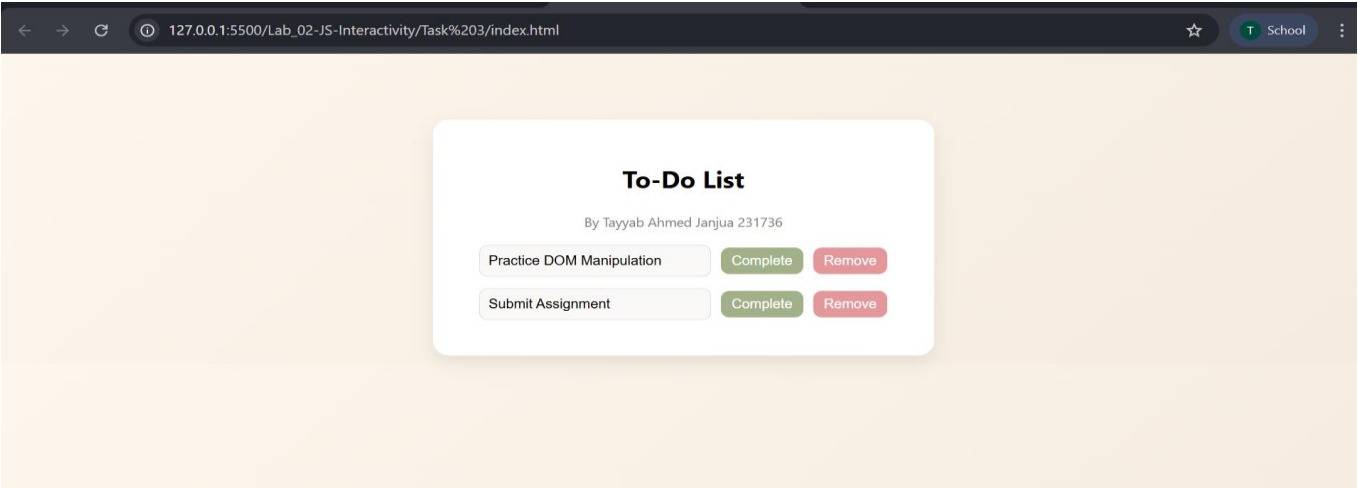
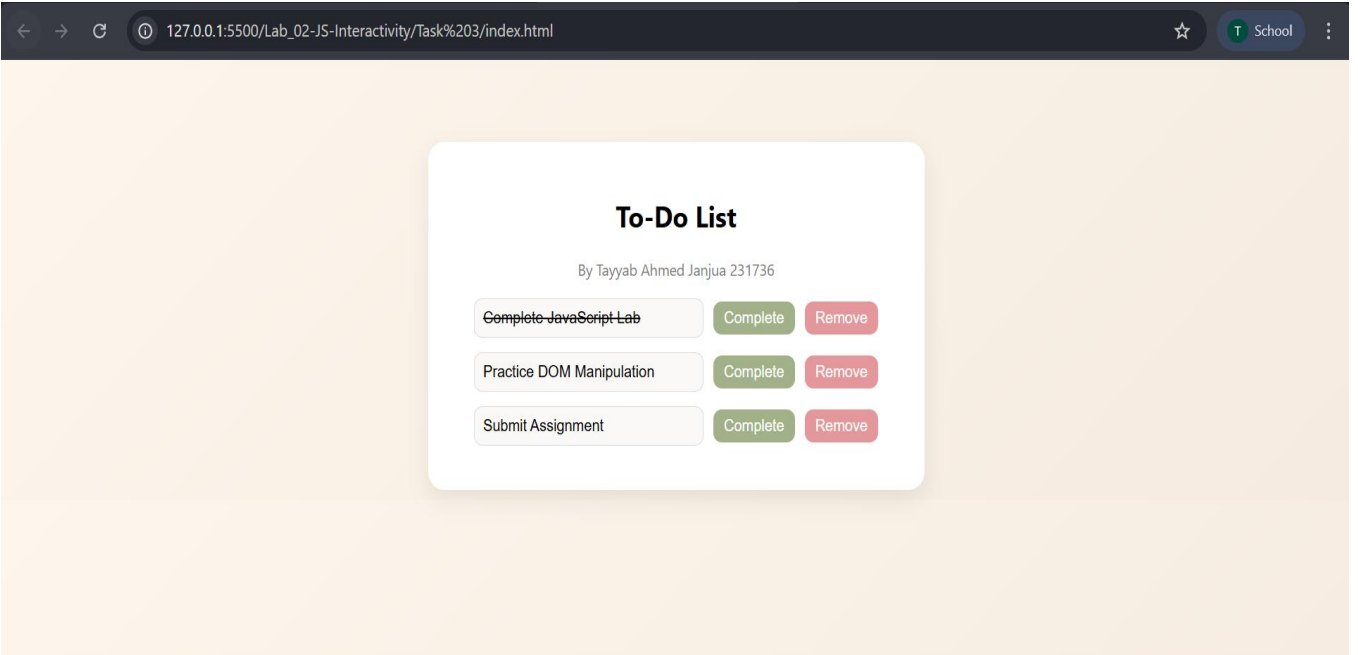
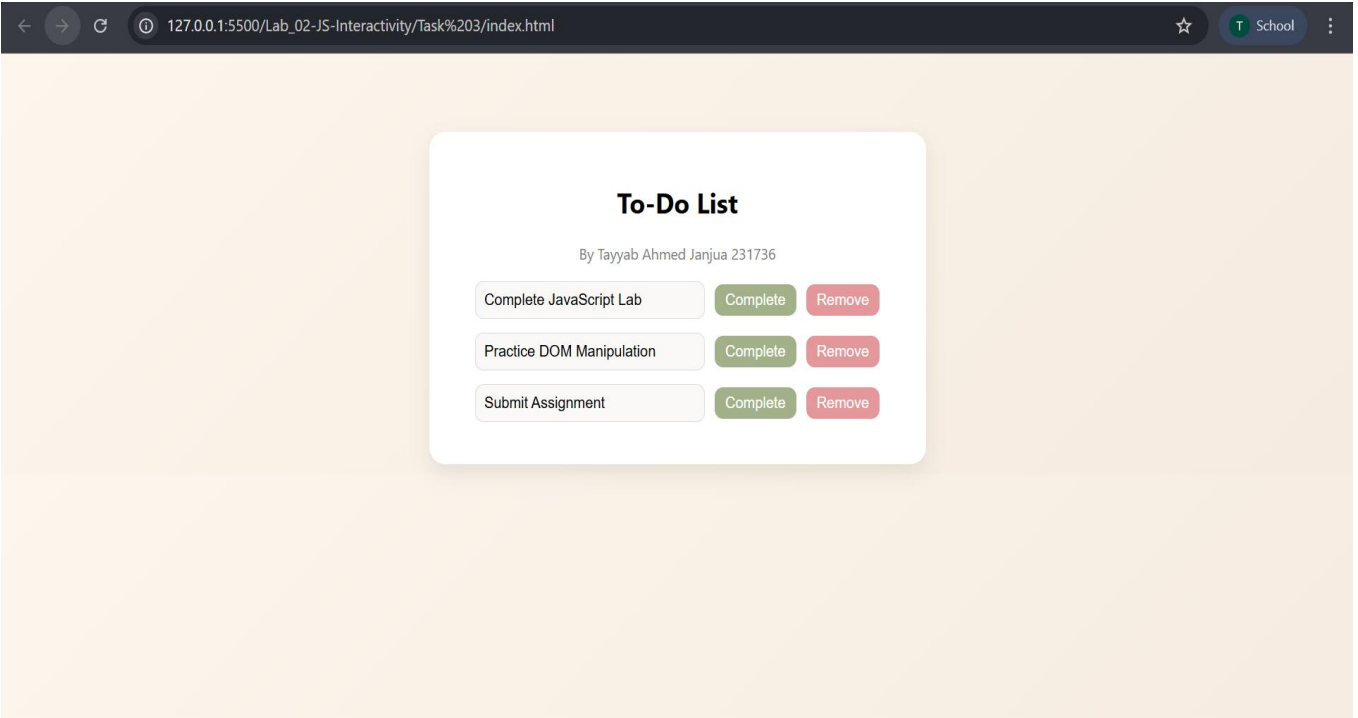
The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5500/Lab_02-JS-Interactivity/Task%202/index.html". The page content features a "Basic Calculator" form. The form has a title "Basic Calculator" and a subtitle "By Tayyab Ahmed Janjua 231736". It contains two input fields: the first with the value "20" and the second with the value "0". Between the input fields is a dropdown menu currently showing "Multiplication (*)". Below the input fields is a blue "Calculate" button. At the bottom of the form, the text "Result: 0" is displayed in a yellow box.

Negative Value

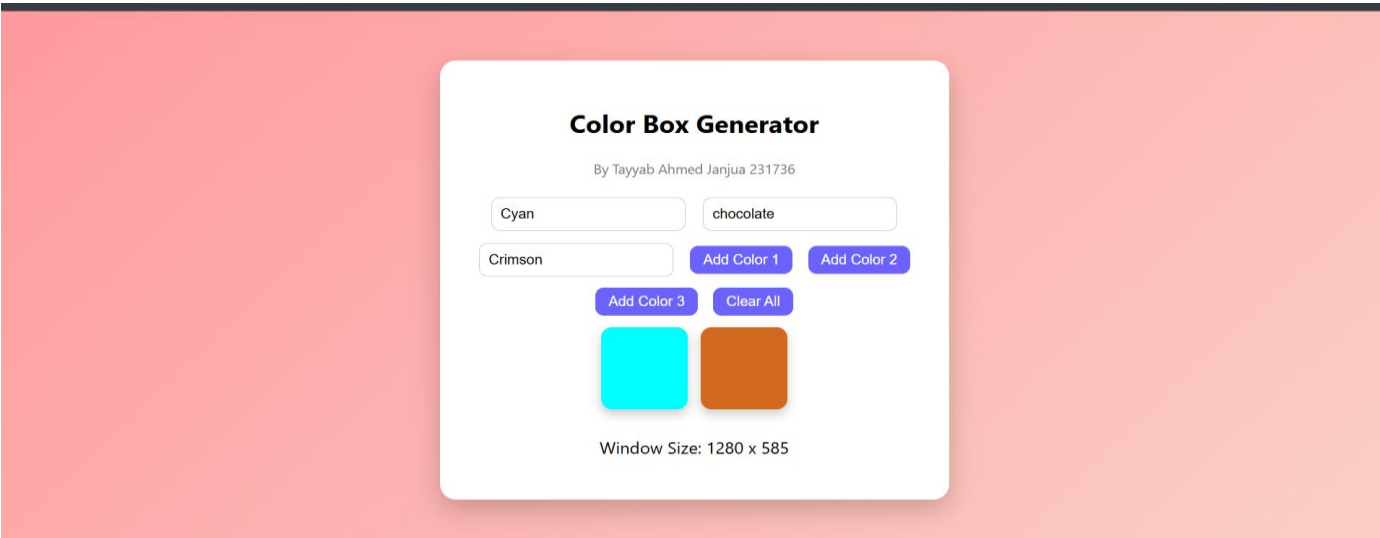
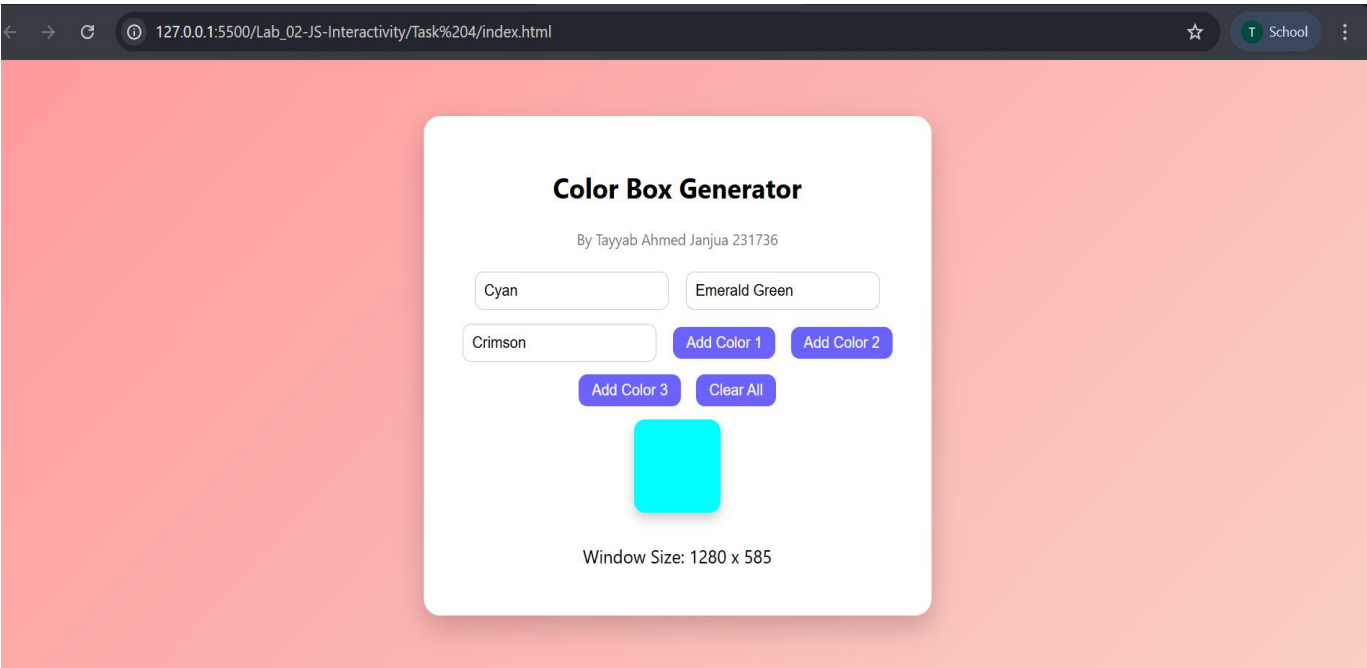
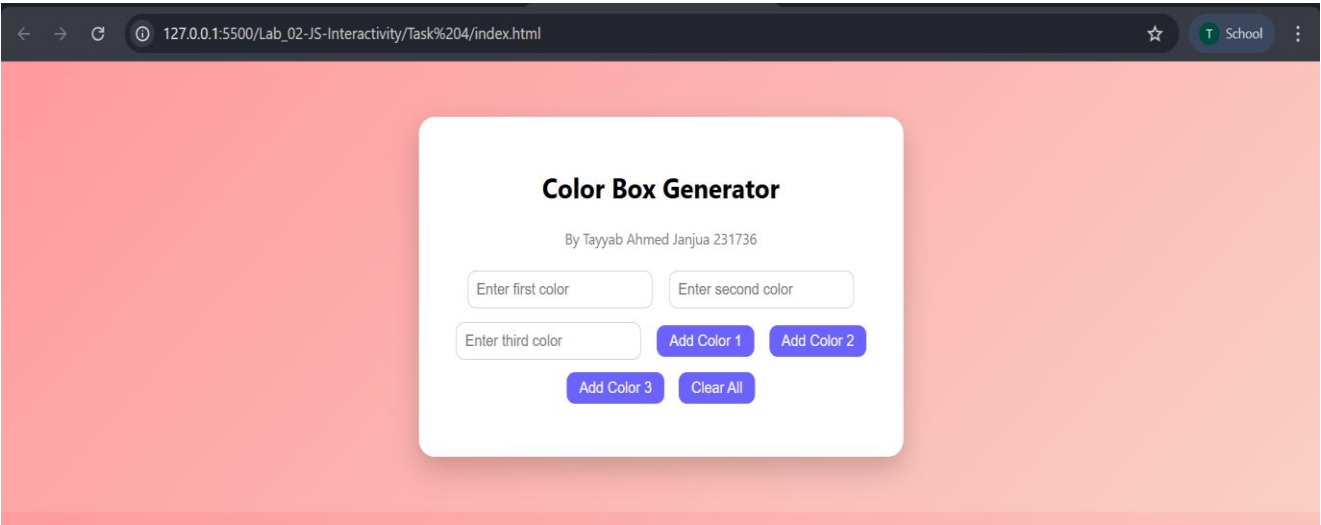


The screenshot shows the same "Basic Calculator" form. The first input field now contains the value "30", and the second input field contains the value "50". The dropdown menu is now set to "Subtraction (-)". The blue "Calculate" button remains. At the bottom, the text "Result: -20" is displayed in a pink box.

Task 3: Simple Todo list

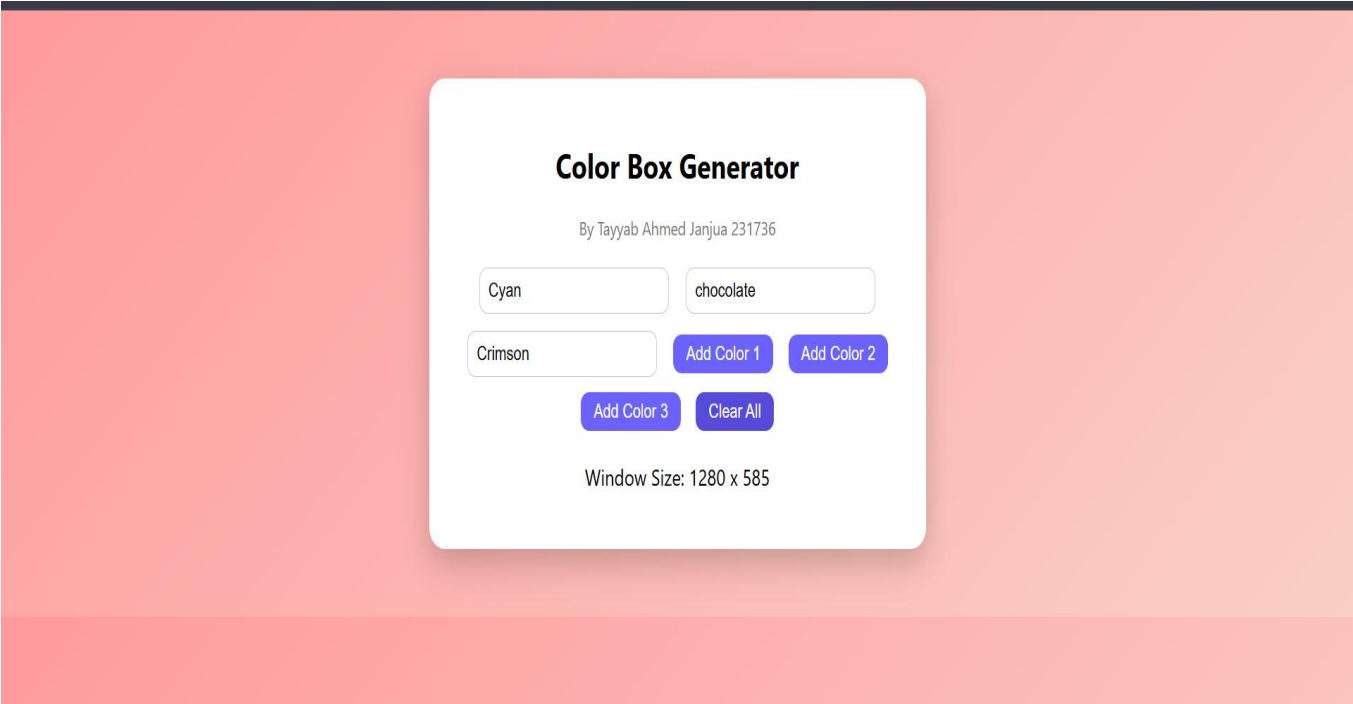
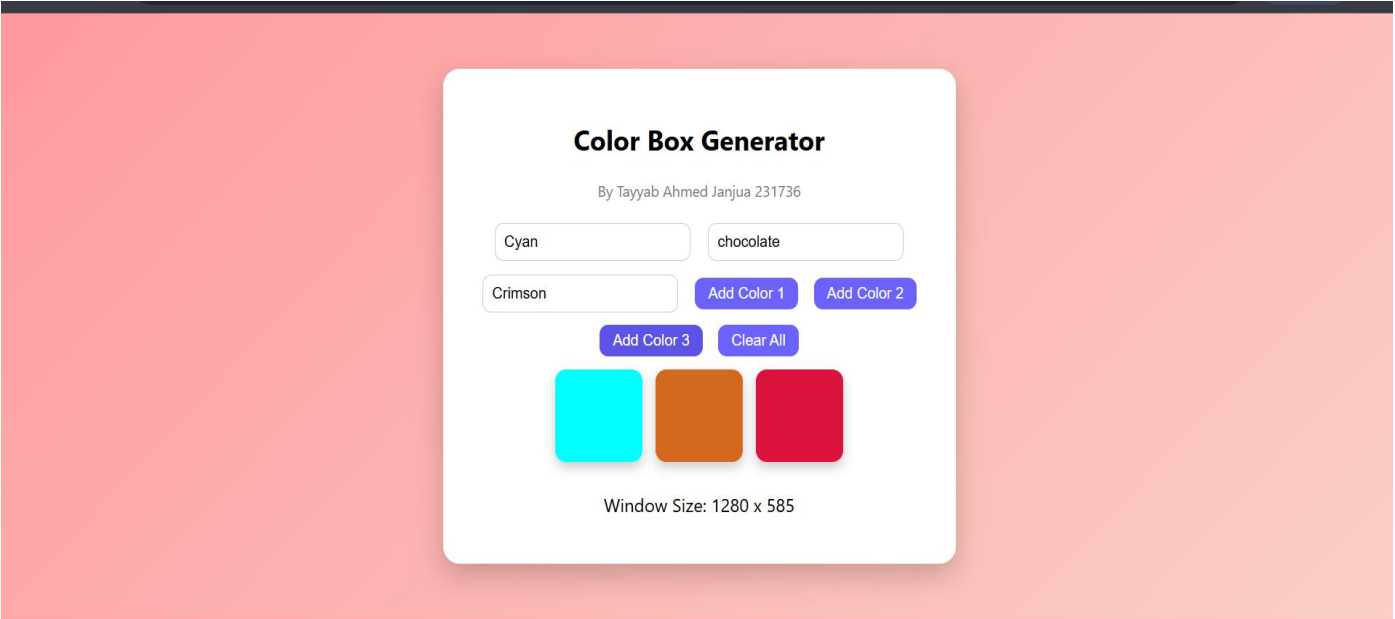


Task 4: Color Box Generator

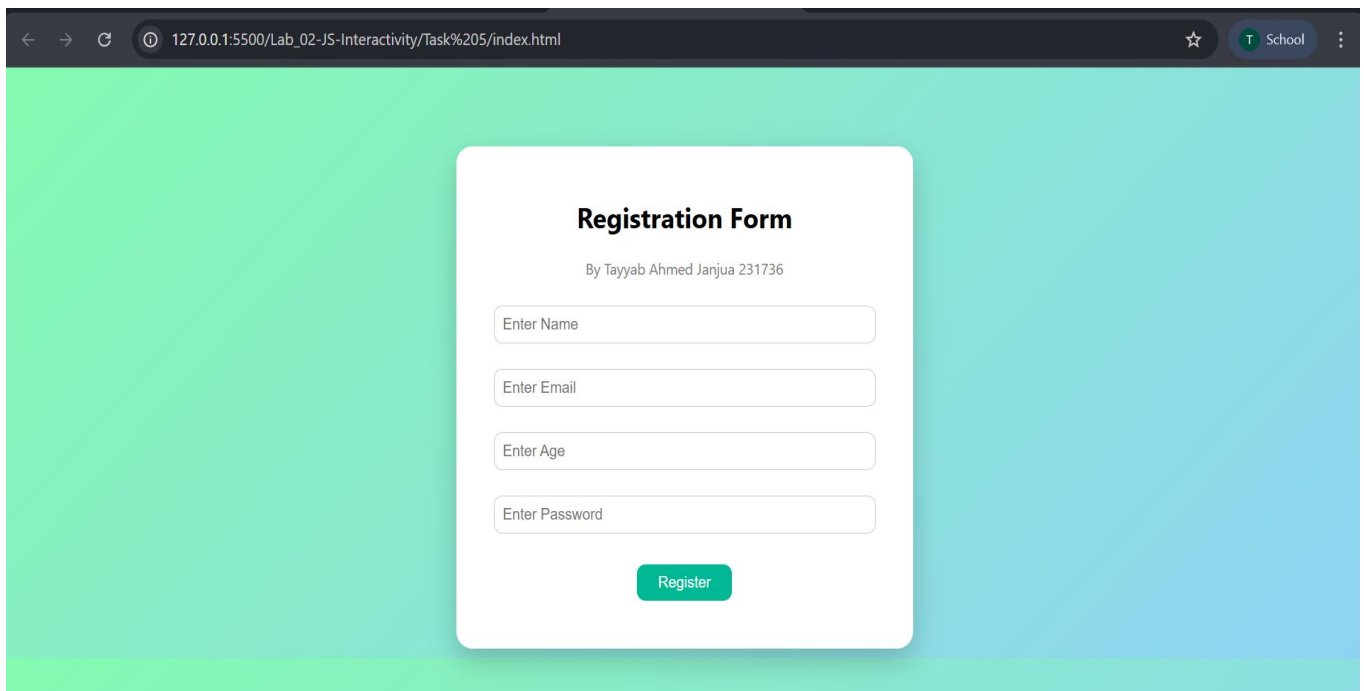


Bonus: Get Element by browser info

```
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.

Registration Form

By Tayyab Ahmed Janjua 231736

Enter Name

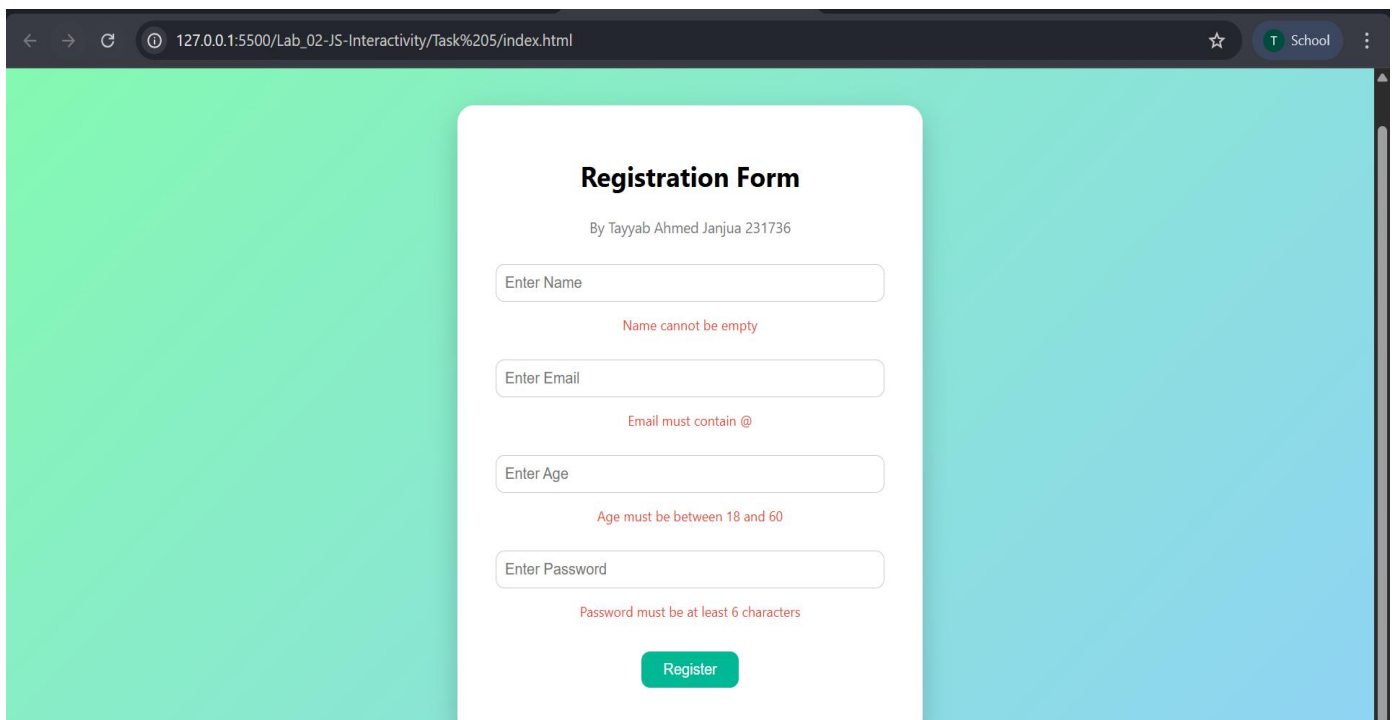
Enter Email

Enter Age

Enter Password

Register

Validation Test



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

Registration Form

By Tayyab Ahmed Janjua 231736

Enter Name

Name cannot be empty

Enter Email

Email must contain @

Enter Age

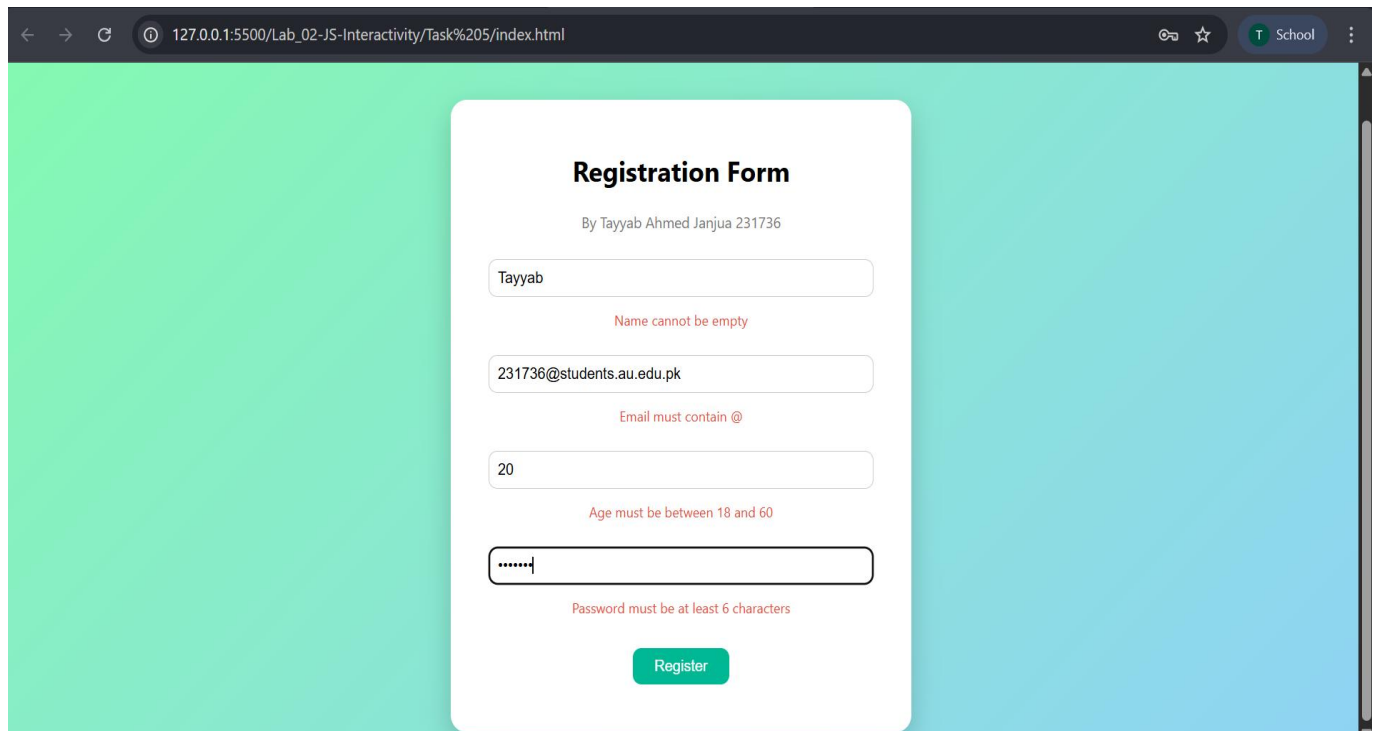
Age must be between 18 and 60

Enter Password

Password must be at least 6 characters

Register

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 @

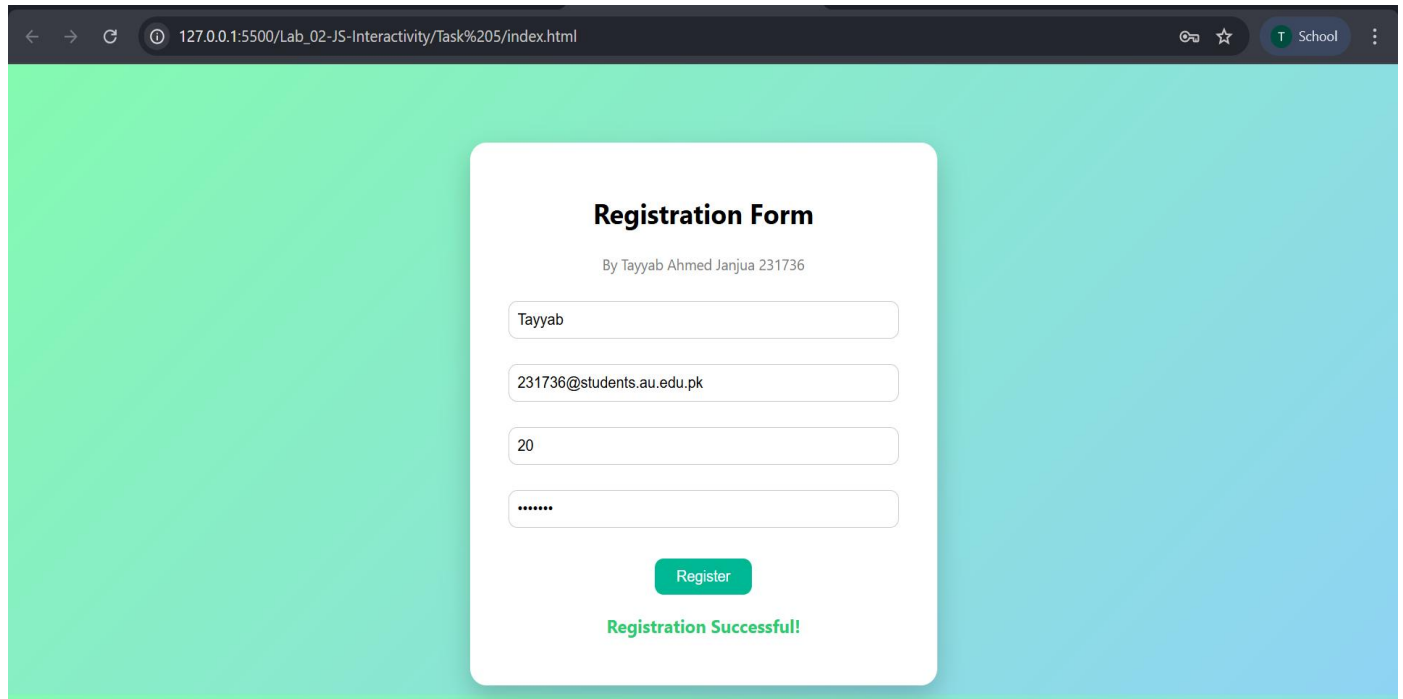
20

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