**22AIE457**

**FULL STACK DEVELOPMENT**

**LAB REPORT**

**PRAGHAADEESH R**

**CH.EN.U4AIE21035**

**LAB-1**

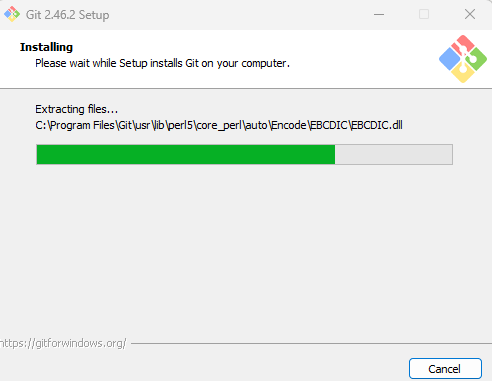
**AIM :**

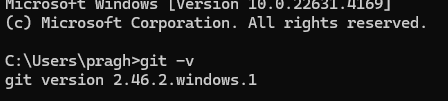
To install Git and work with basic Git commands.

**PROCEDURE :**

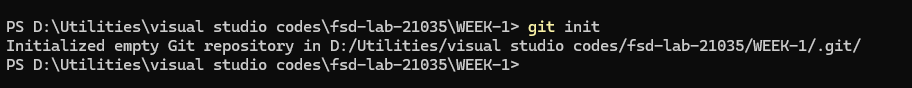
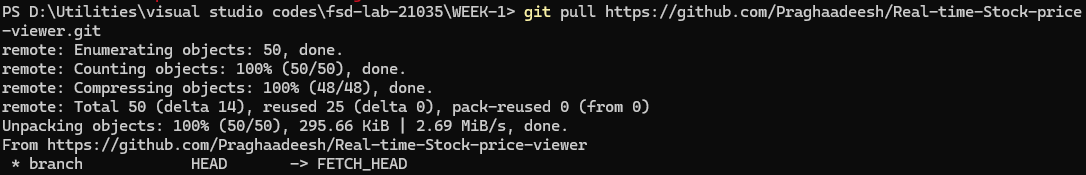
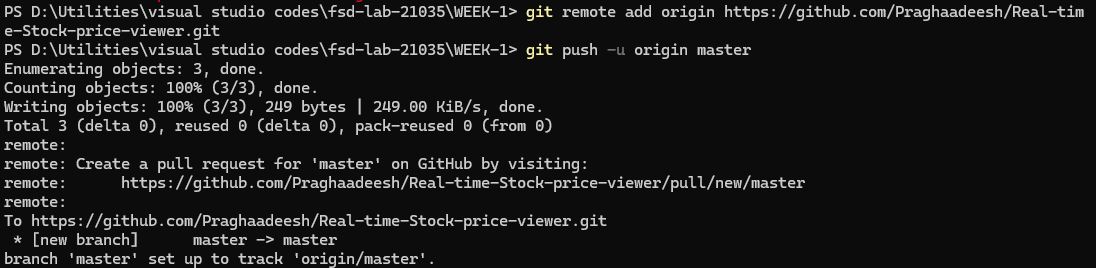
**Installation :**

****Go to <https://git-scm.com/downloads/win> and download git for windows.

Open the installer and give the necessary configuration and wait for Git to be installed.

****Verify installation by entering “git -v” command in terminal.

**Git Commands :**

1. **git init :**
2. **git add & commit :**
3. **git pull :**
4. **git push :**

**RESULTS :**

Thus, Git has been successfully installed and basic git commands have been tested and the output is verified.

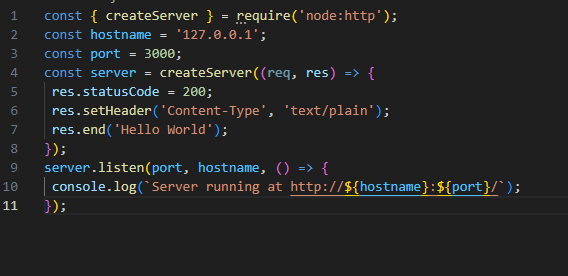
**LAB-2**

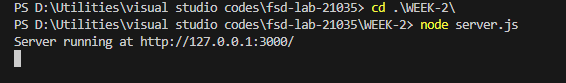
**AIM :**

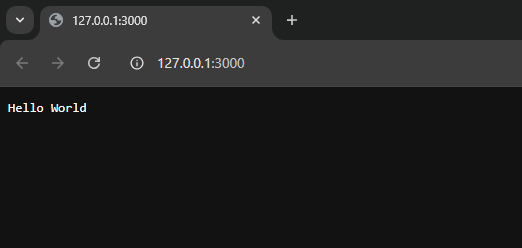
To work with nodejs basics and use various HTML tags.

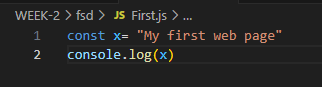
**PROCEDURE :**

**CODE :**

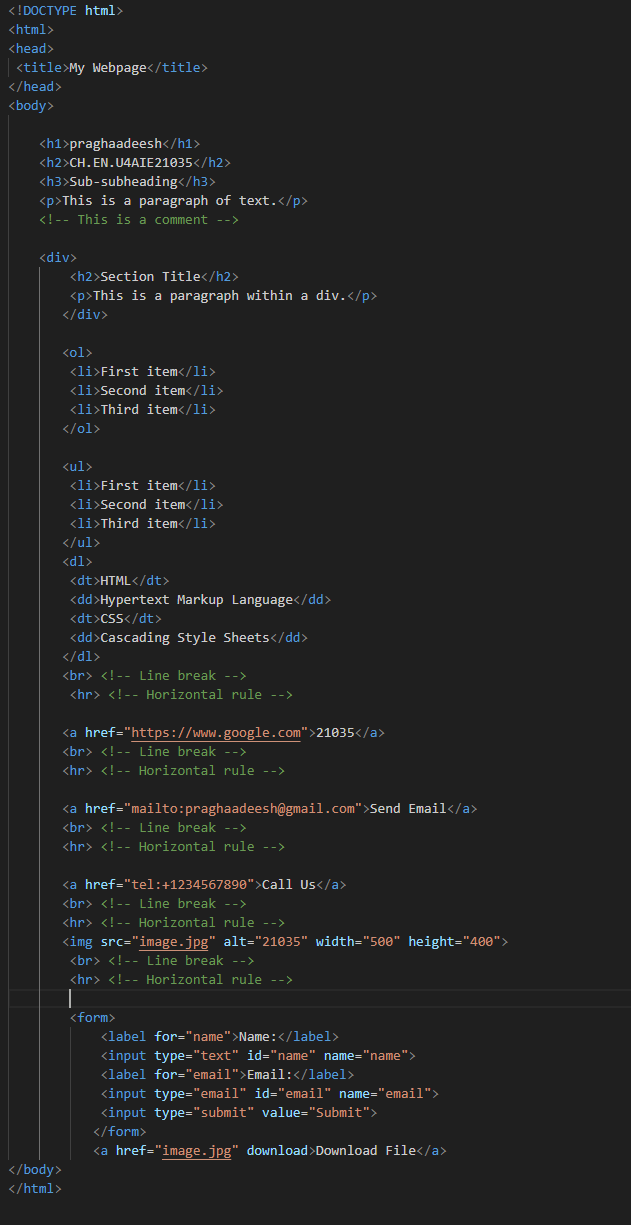
** Creating a basic nodejs server :**

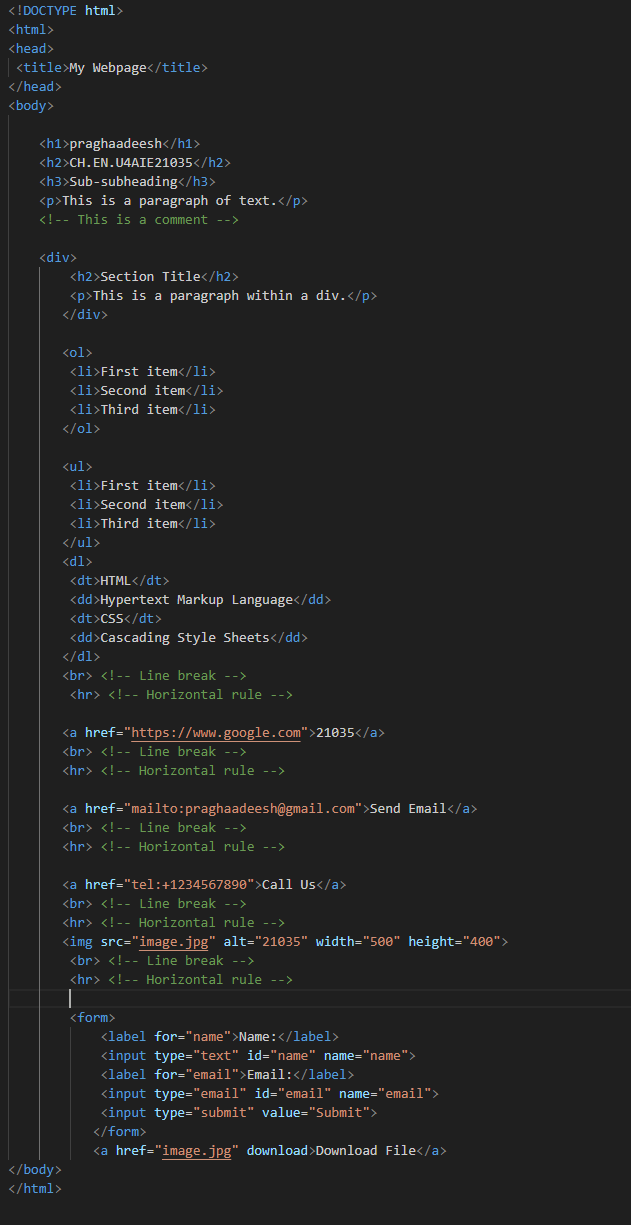
** OUTPUT :**

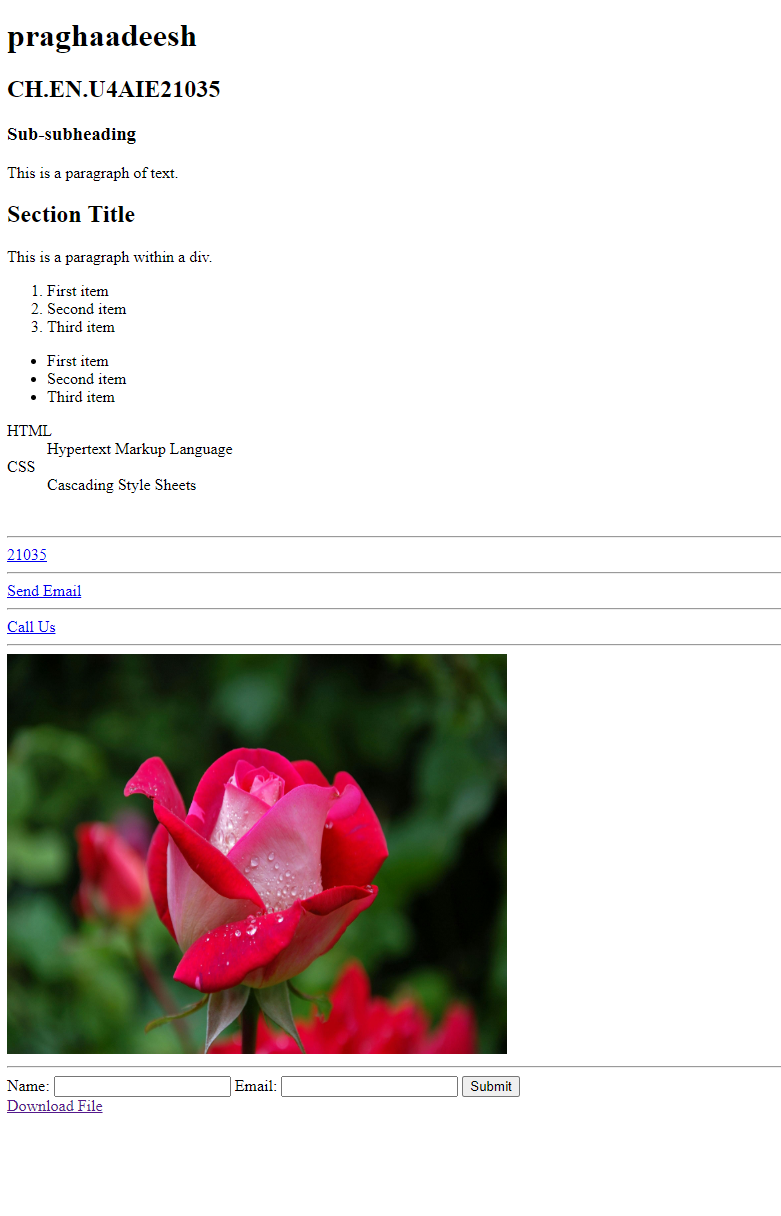
****

** Using console log :**

** OUTPUT :**

** HTML Tags :**

****

** OUTPUT :**

**RESULT :**

Thus, basics of nodejs and various HTML tags have been tried and the output is verified.

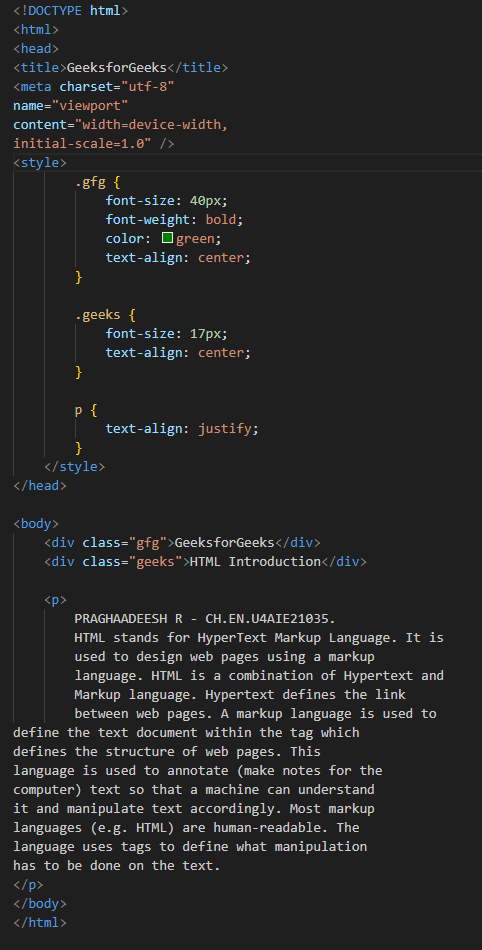
**LAB-3**

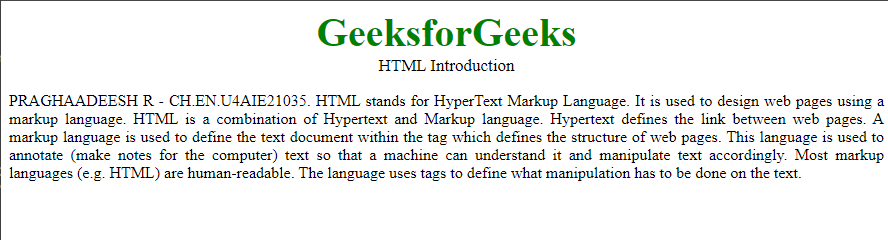
**AIM :**

To use HTML and CSS media queries to make a webpage responsive.

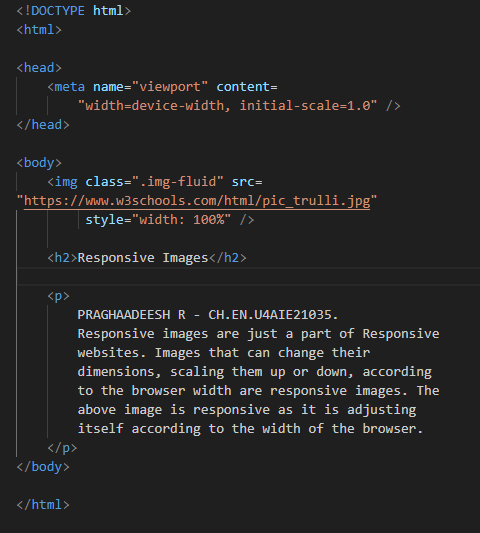
**PROCEDURE :**

1. **HTML Viewport meta tag for Responsive Web Design**

**CODE :**

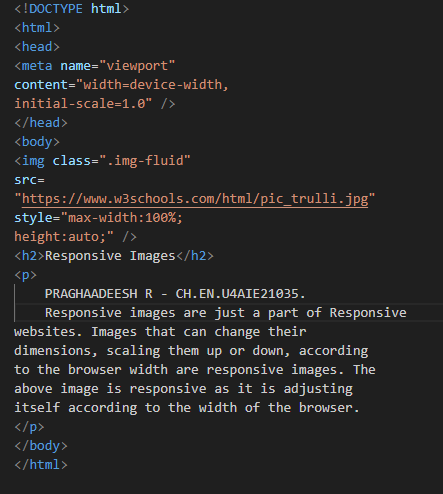
**OUTPUT :**

1. **Responsive Images**
   1. **Using width Property**

 **CODE :**

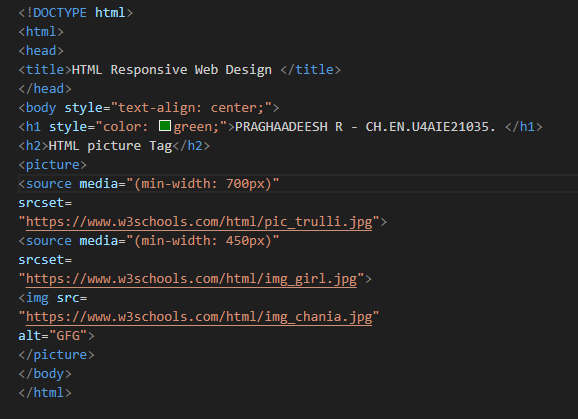
**OUTPUT :**

* 1. **Using the max-width Property**

**CODE :**

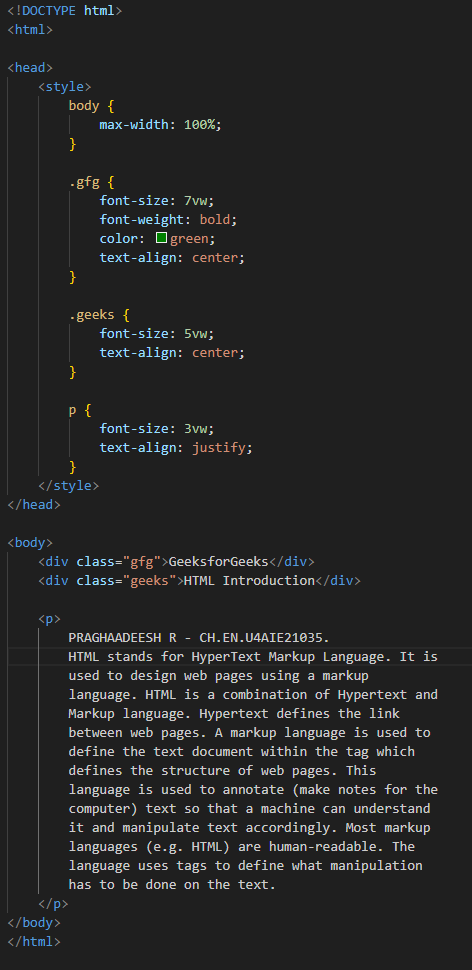
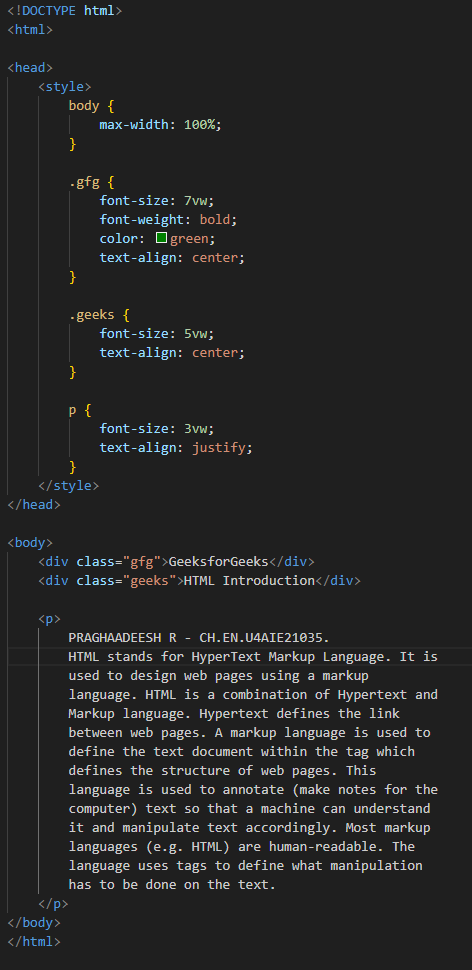
**OUTPUT :**

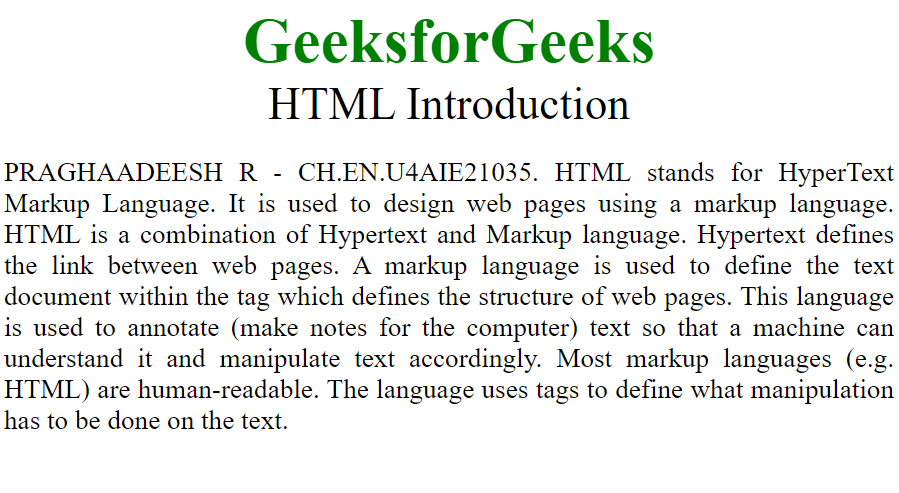
* 1. **Responsive Image for different Browser Width**

 **CODE :**

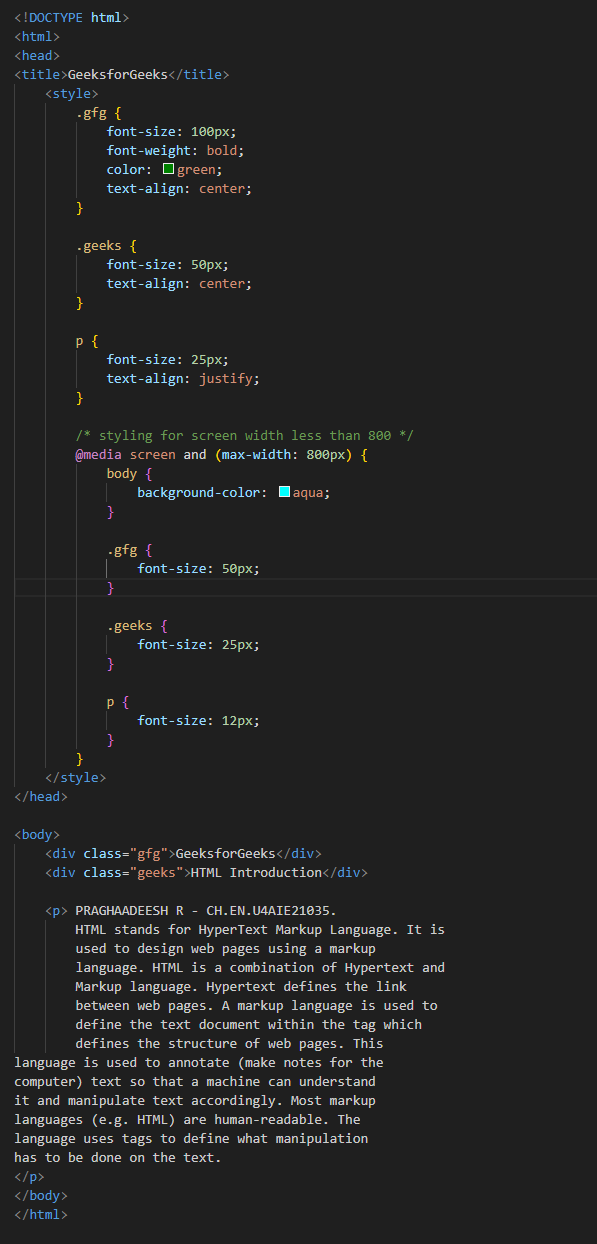
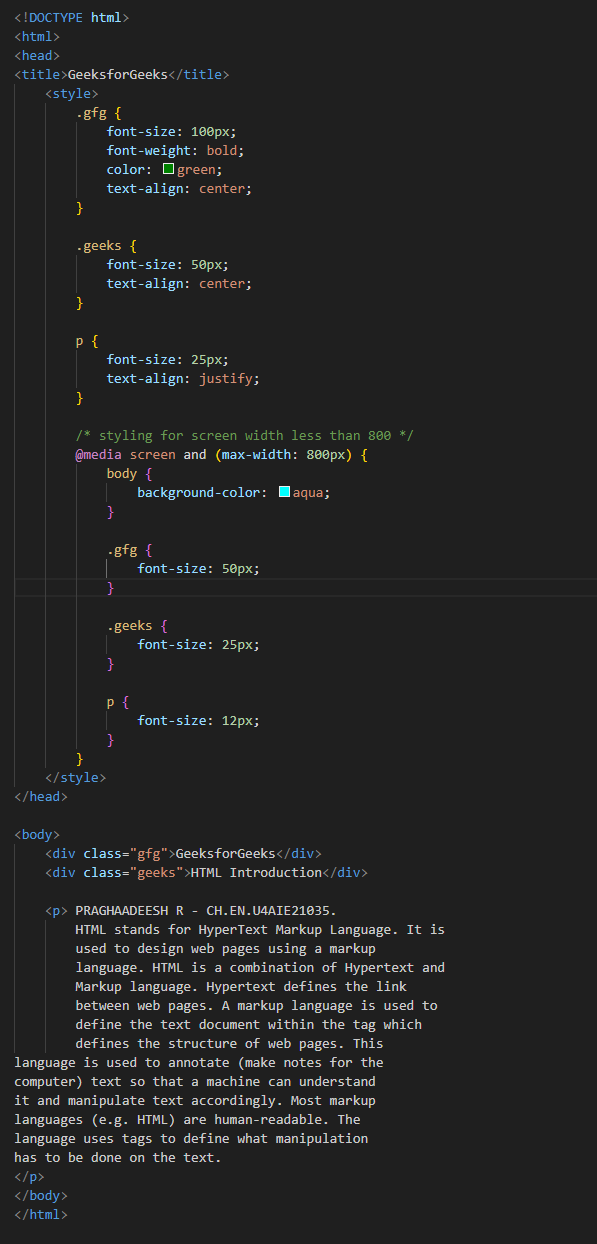
**OUTPUT :**

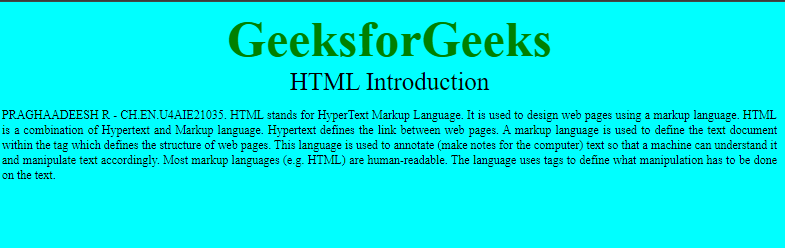
1. **Responsive Texts**

 **CODE :**

**OUTPUT :**

1. **CSS media Queries**

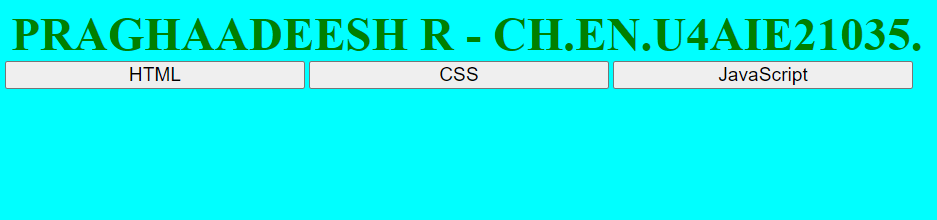
 **CODE :**

**OUTPUT :**

1. **Responsive Layouts**

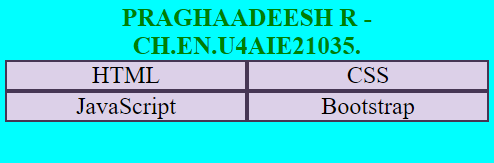
**5.1 Using flexbox property**

 **CODE :**

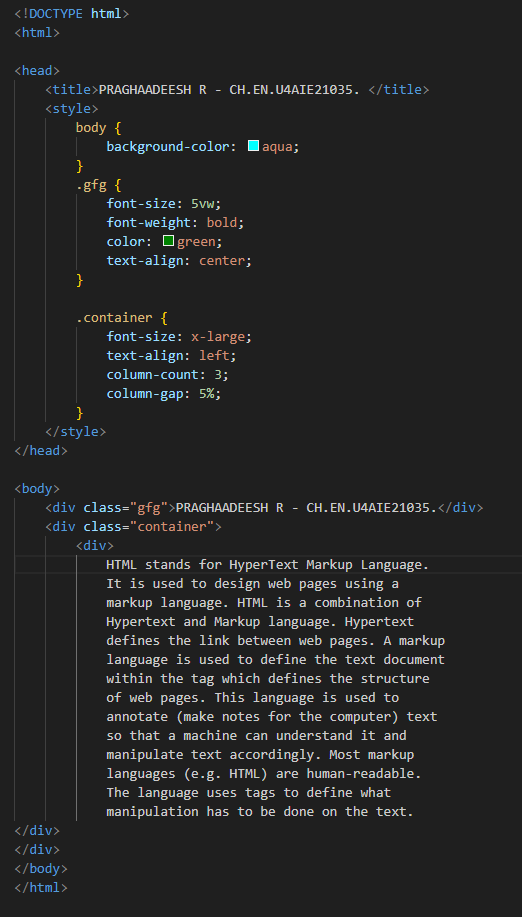
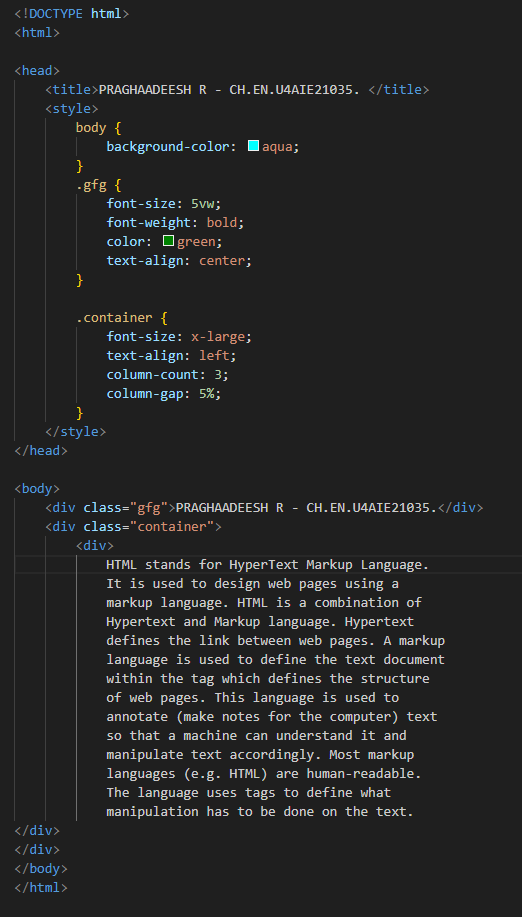
**OUTPUT :**

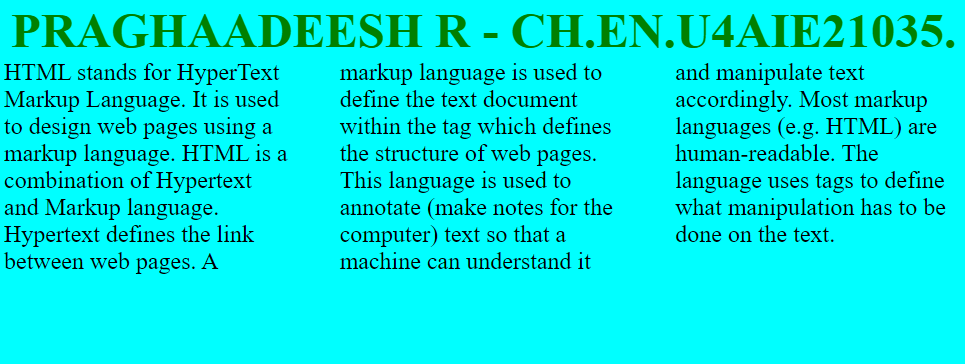
**5.2 Using CSS Grids**

 **CODE :**

**OUTPUT :**

**5.3 Using CSS Multi-Column**

 **CODE :**

**OUTPUT :**

**RESULT :**

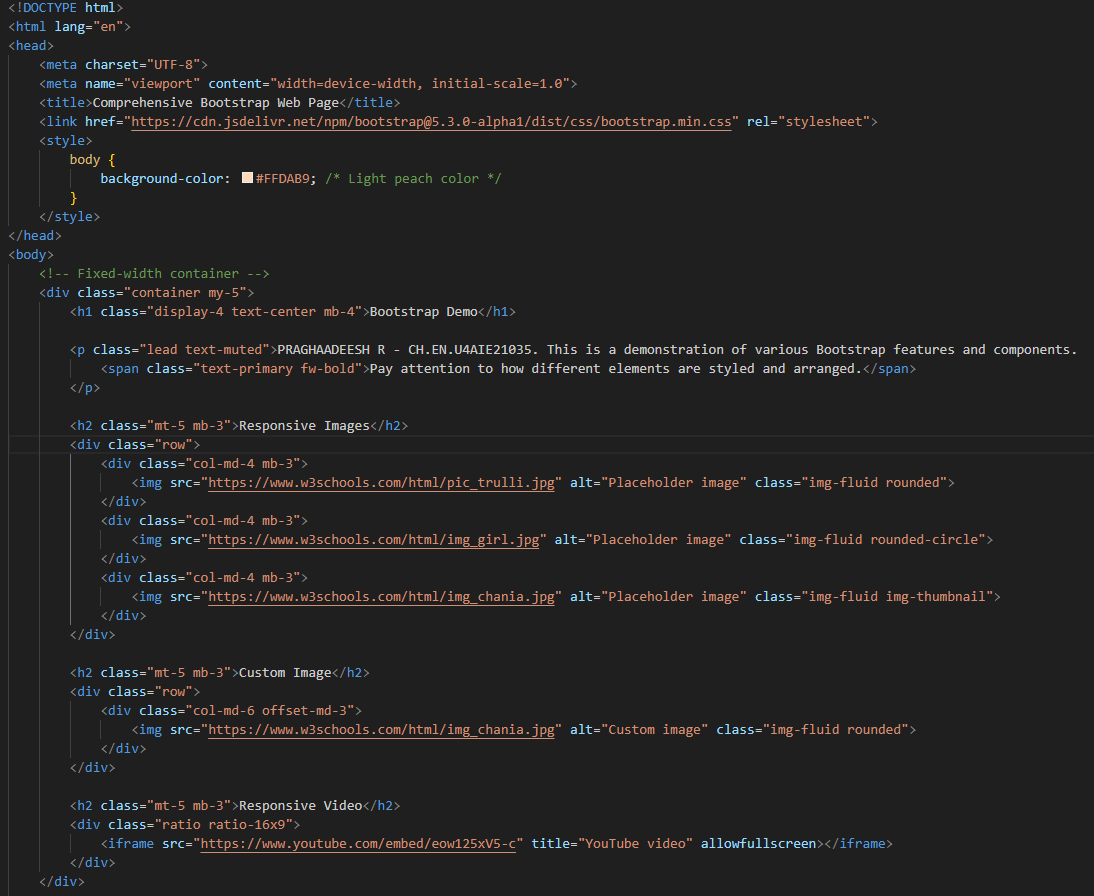
Thus, responsive webpage techniques have been explored and CSS media queries have been executed.

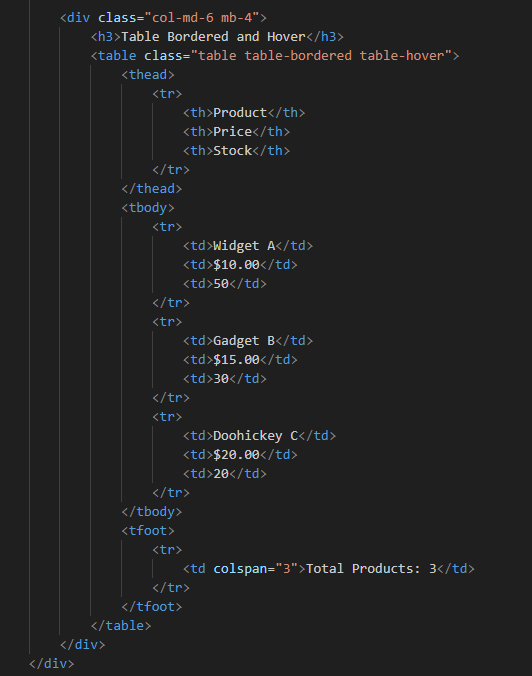
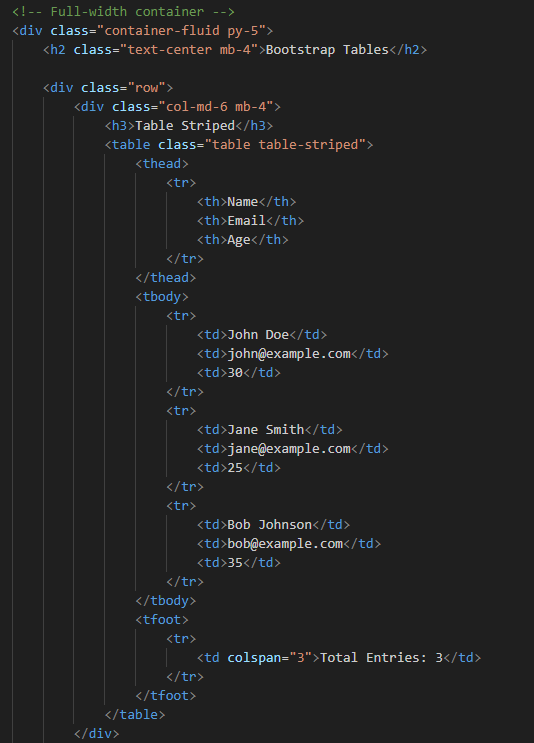
**LAB-4**

**AIM :**

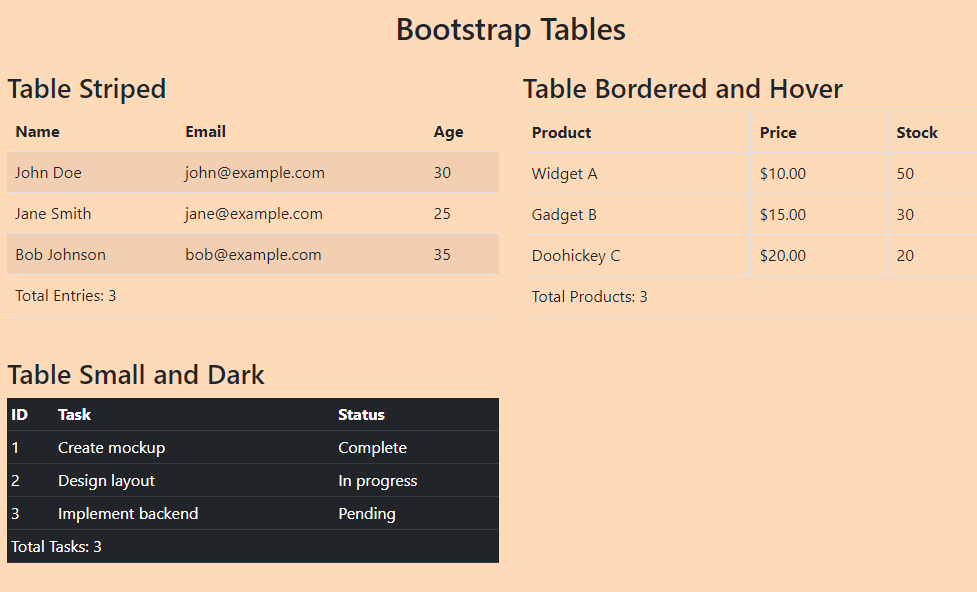
To create a comprehensive Bootstrap Web Page using HTML.

**PROCEDURE :**

** CODE :**

****

**OUTPUT :**

****

**RESULT :**

Thus, a responsive bootstrapped webpage has been created using HTML, which contains responsive images, custom images, responsive video and bootstrap tables.

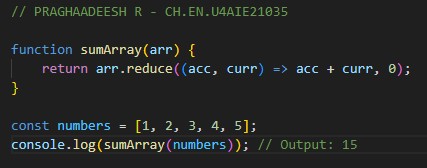
**LAB-5**

**AIM :**

To write javascript program to perform certain tasks.

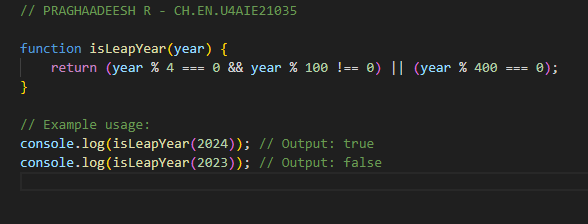
**PROCEDURE :**

1. **Write a JavaScript program to compute the sum of an array of integers**

 **CODE :**

 **OUTPUT :**

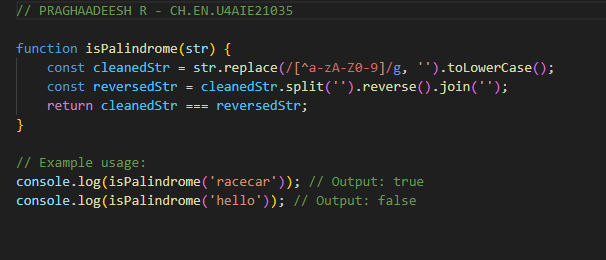
1. **Write a JavaScript program to determine whether a given year is a leap year in the Gregorian calendar**

 **CODE :**

 **OUTPUT :**

1. **Write a JavaScript function that checks whether a passed string is**

**palindrome or not**

**CODE :**

**OUTPUT :**

1. **Write a JavaScript program to test the first character of a string is**

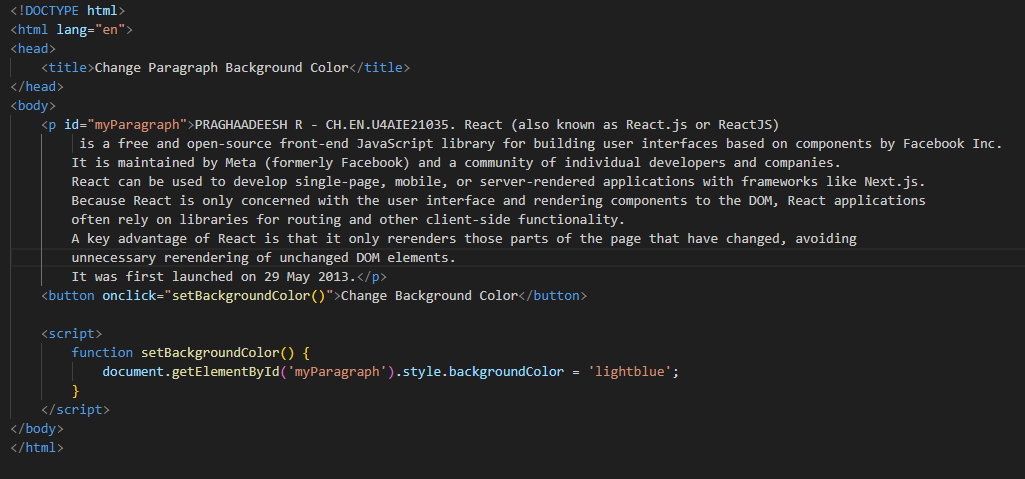
**uppercase or not**

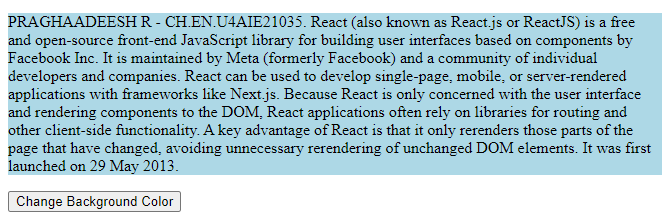
 **CODE :**

**OUTPUT :**

1. **Write a JavaScript program to set the background colour of a**

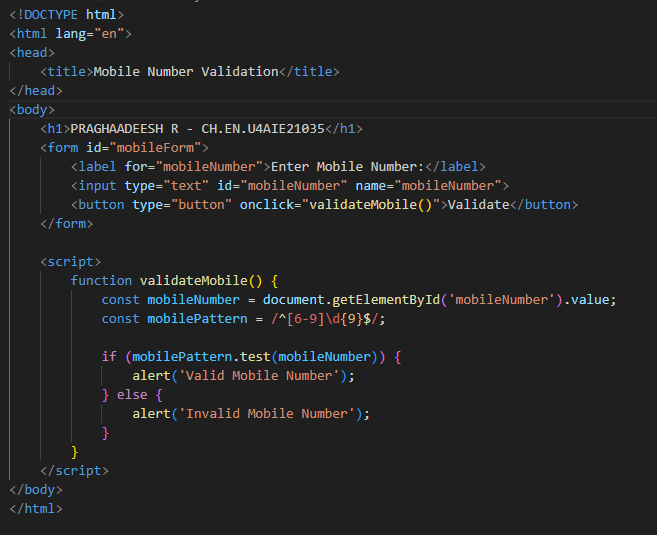
**Paragraph**

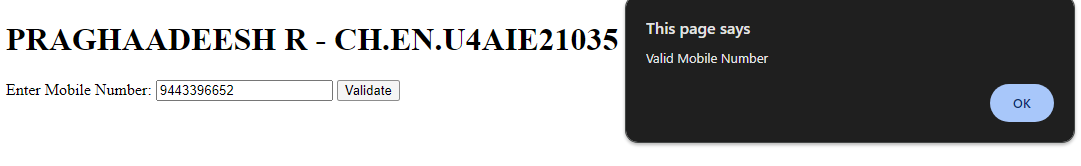
 **CODE :**

 **OUTPUT :**

1. **Write a JavaScript program to check the given number is mobile**

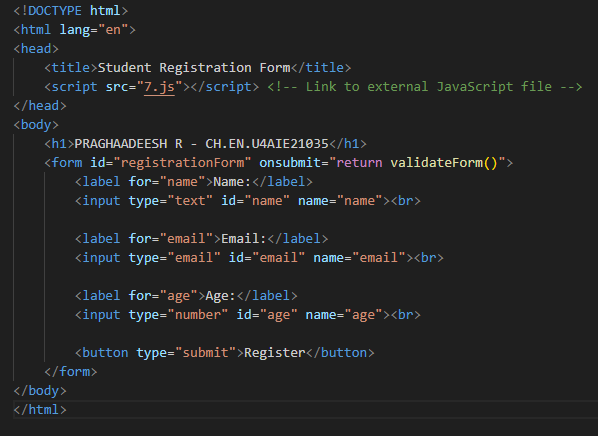
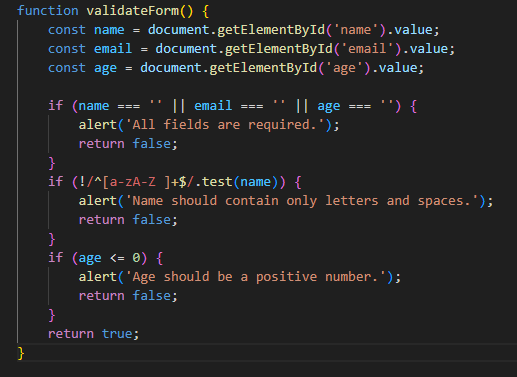
**number or not using form**

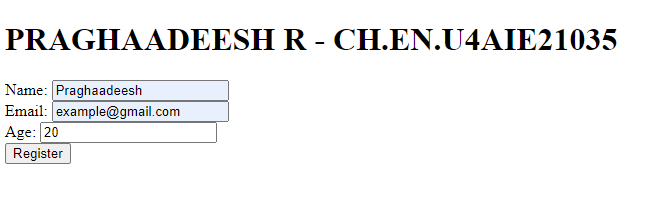
 **CODE :**

**OUTPUT :**

1. **Design a student registration form and apply validation on it by using**

**external javascript.**

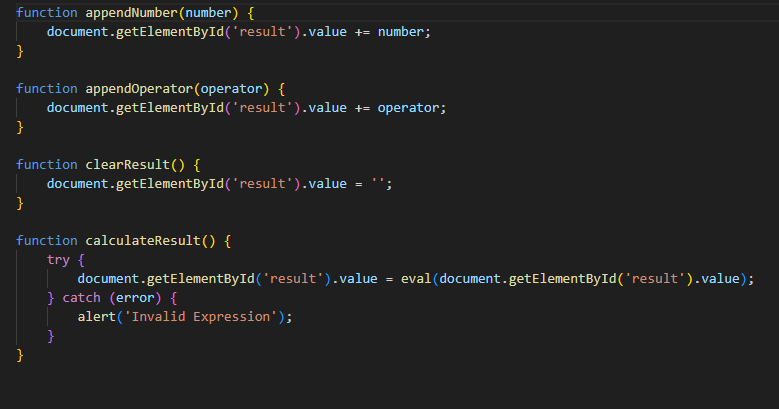
 **CODE :**

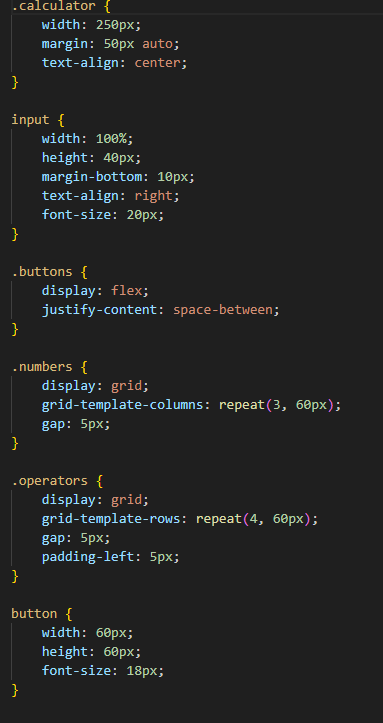
**OUTPUT :**

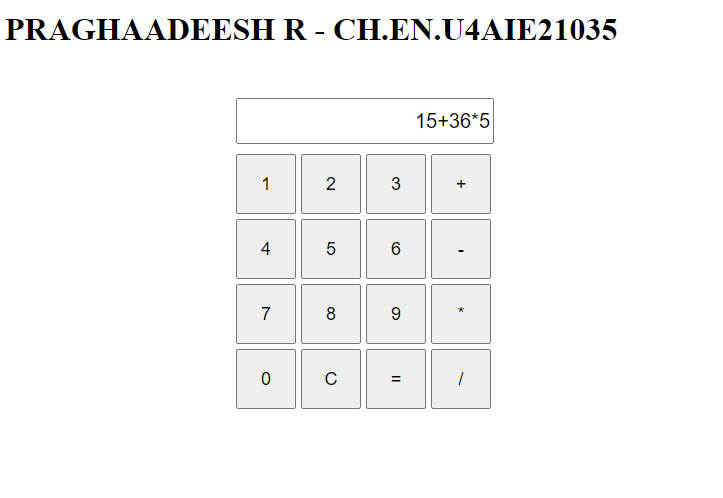
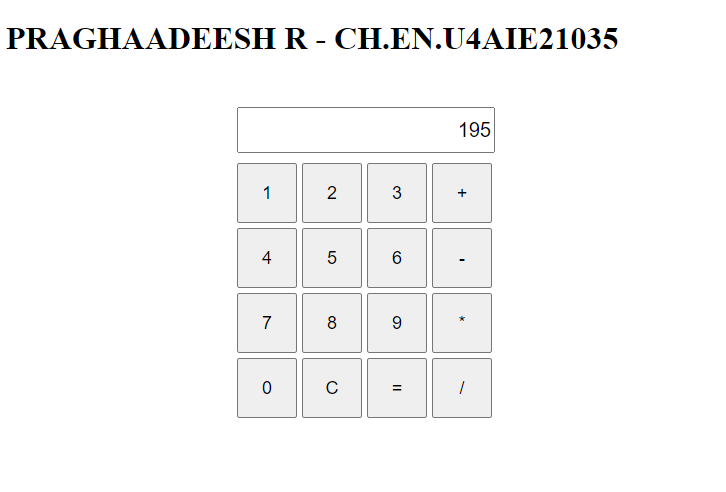
1. **Design a simple Calculator by using html, css, and javascript**

**CODE :**

**HTML :**

**JAVASCRIPT :**

**CSS :**

**OUTPUT :**

**RESULT :**

Thus, javascript programs to perform various tasks has been created and the output has been verified.

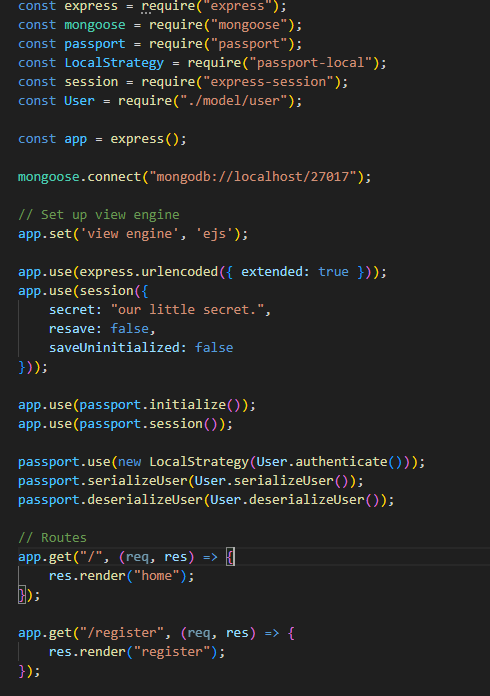
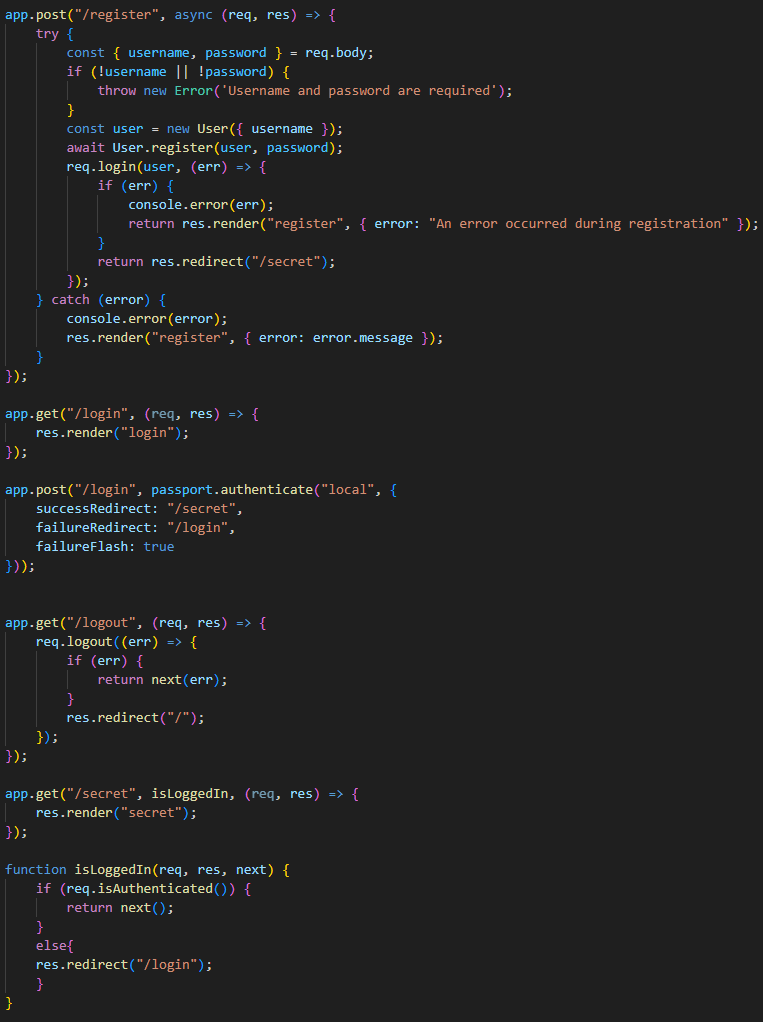
**LAB-6**

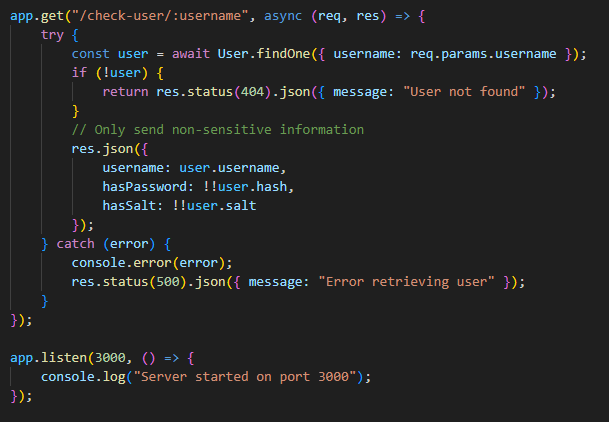
**AIM :**

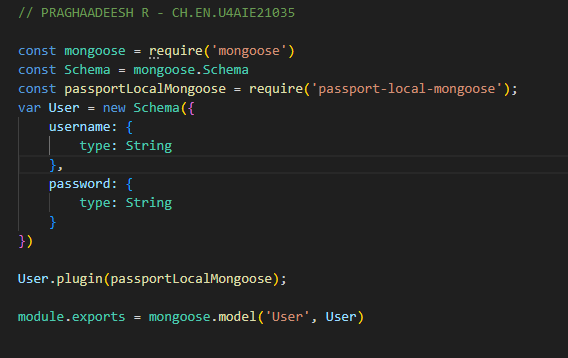
To create a login form using Node JS and MongoDB.

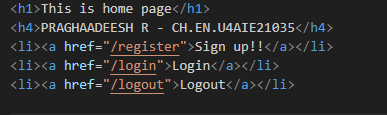
**PROCEDURE :**

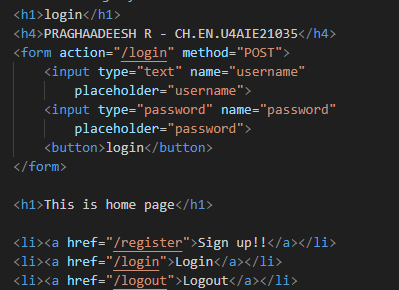
**CODE :**

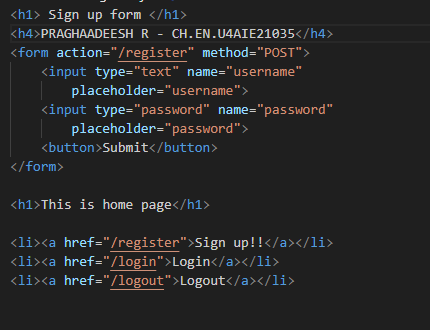
 **App.js :**

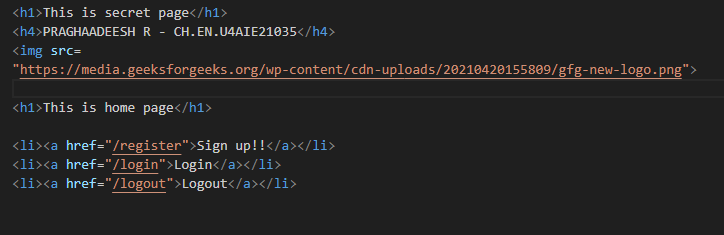


**** **User.js :**

 **Home.js :**

 **Login.js :**

 **Register.js :**

 **Secret.js :**

 **OUTPUT :**

**RESULT :**

Thus, a login page has been created using Nodejs and MongoDB, and the login functionality has been verified.

**LAB-7**

**AIM :**

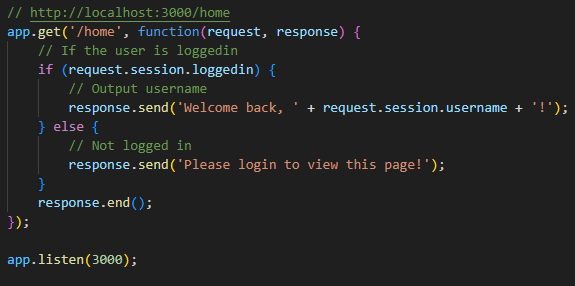
To create a Basic Login System with Node.js, Express, and MySQL

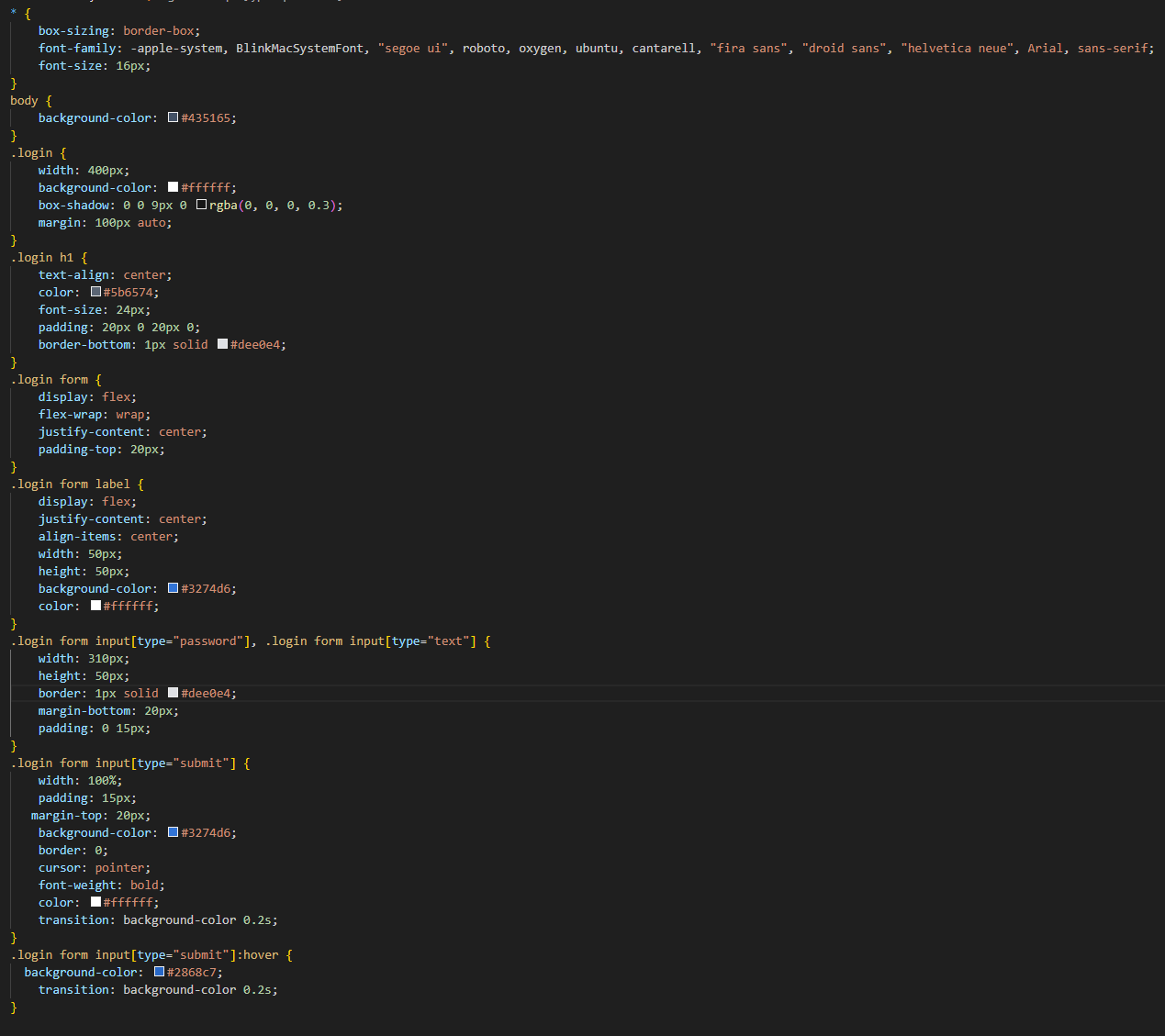
**PROCEDURE :**

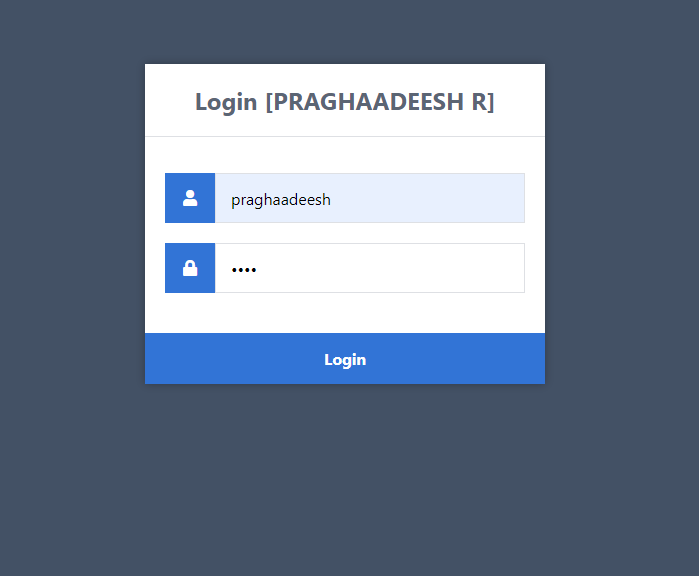
**CODE :**

 **HTML :**

 **JAVASCRIPT :**



 **CSS :**

**OUTPUT :**

**RESULT :**

Thus, a Basic Login System with Node.js, Express, and MySQL has been created and the functionalities has been verified.

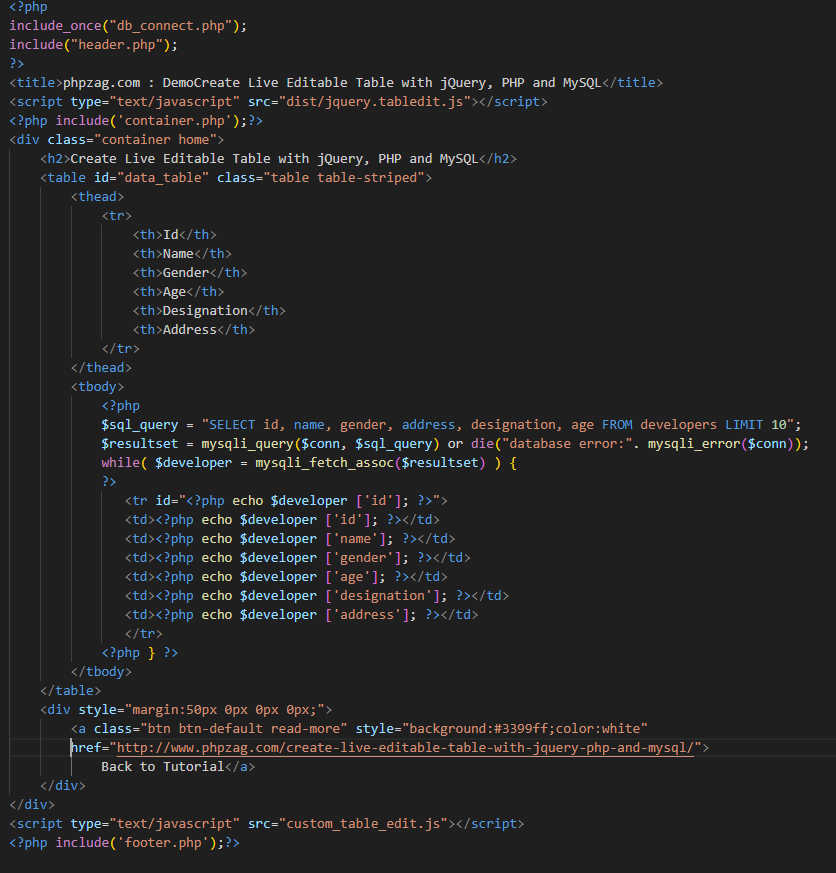
**LAB-8**

**AIM :**

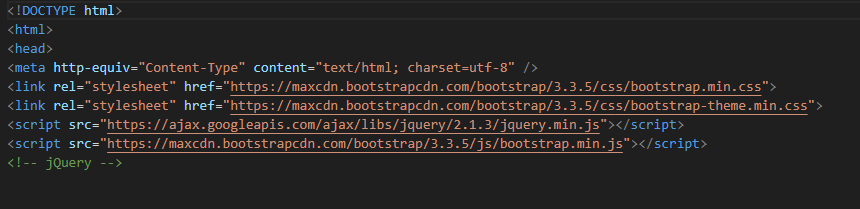
To Create a Live Editable Table with jQuery, PHP and MySQL

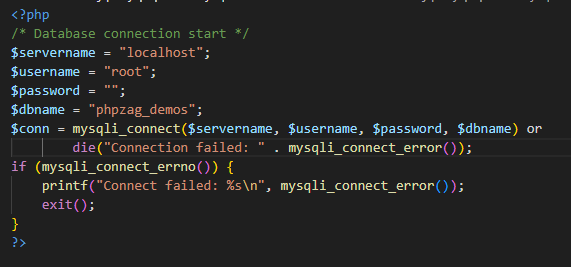
**PROCEDURE :**

**CODE :**

** Index.php :**

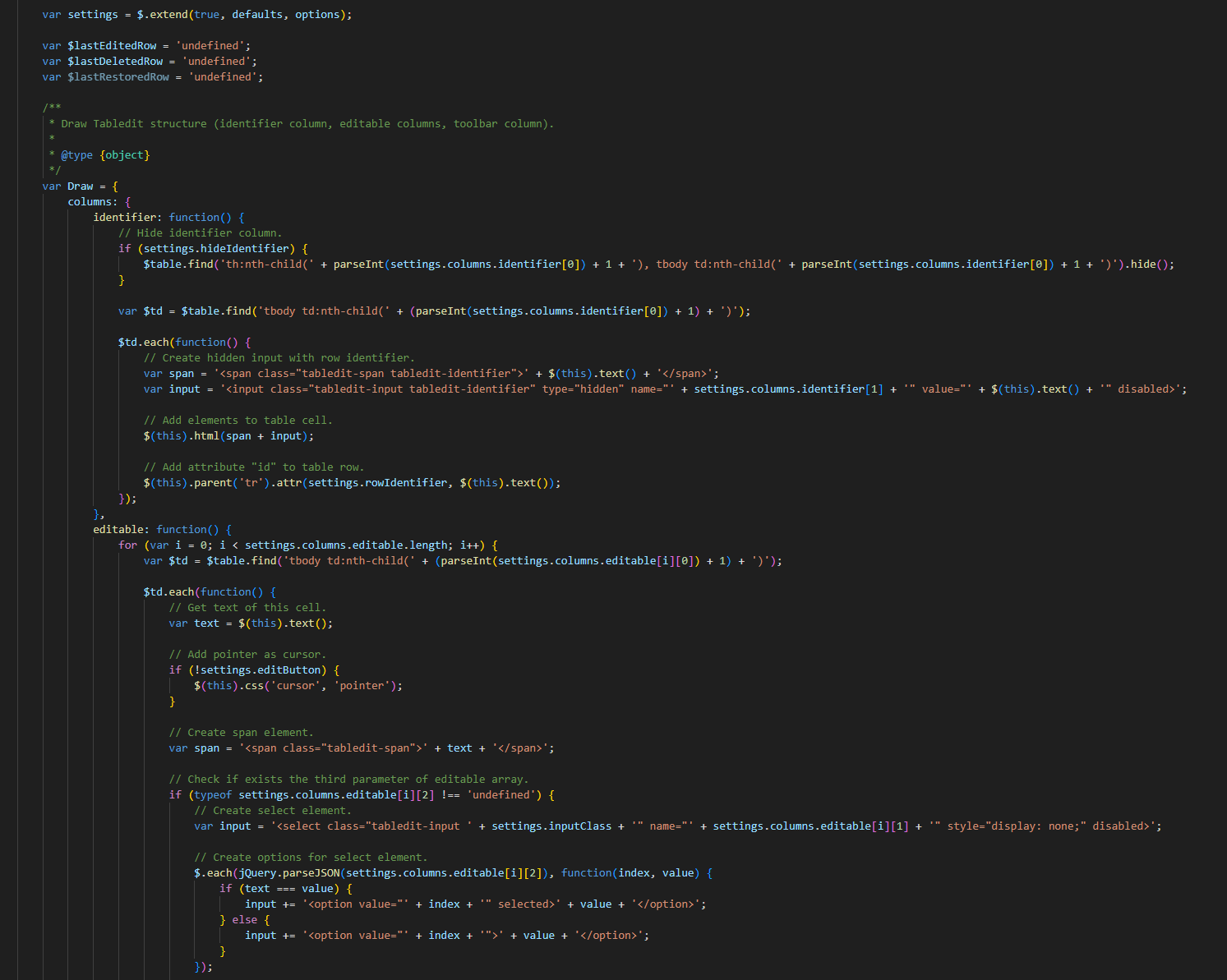
**Live\_edit.php :**

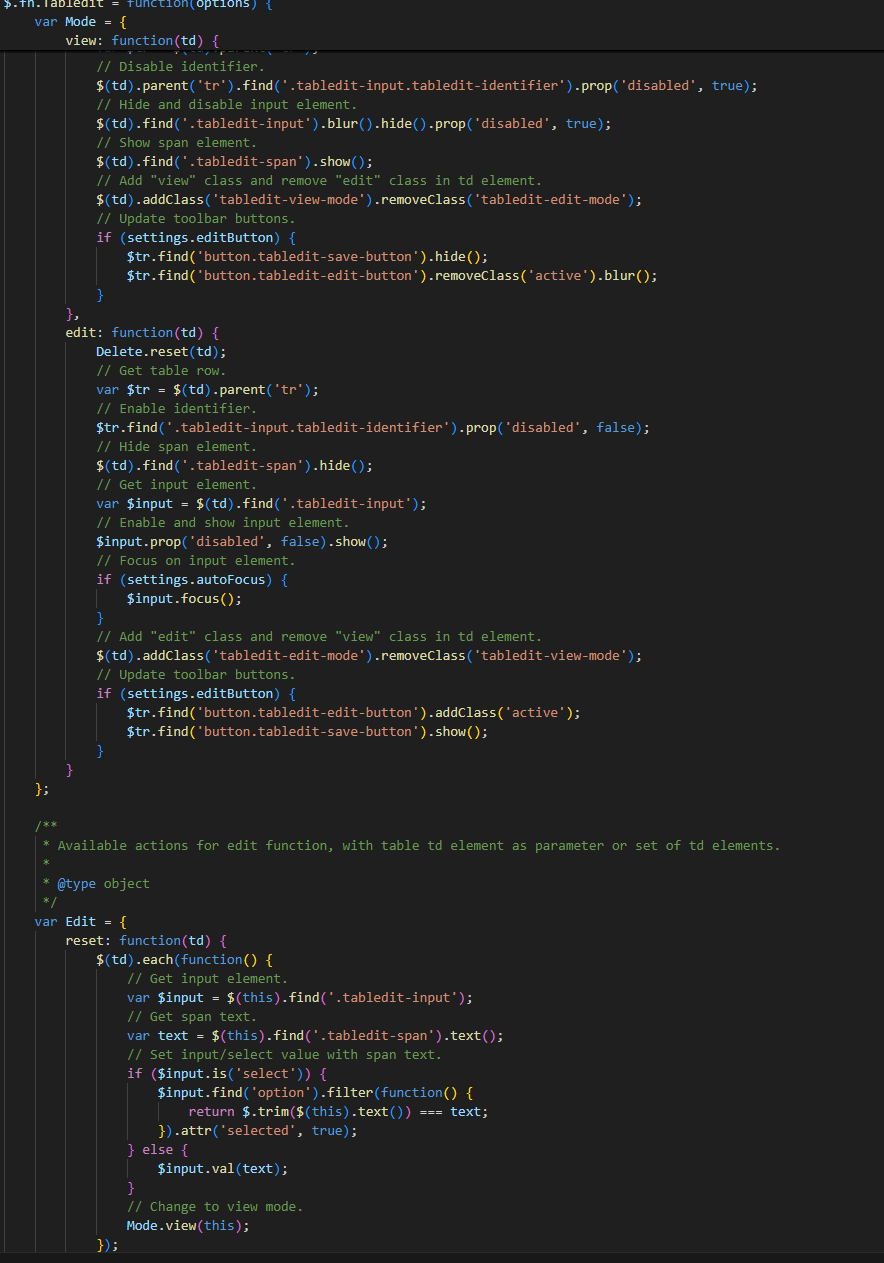
** Header.php :**

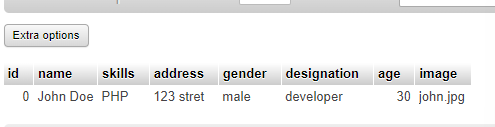
** Dbconnector.php :**

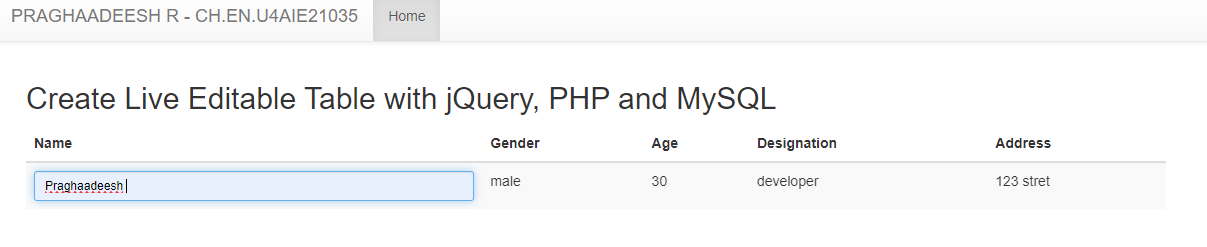
** Container.php :**

** Jquery.tabledit.js :**

****

****

**Entering value into MYSQL table :**

**OUTPUT :**

**RESULT :**

Thus, a Live Editable Table with jQuery, PHP and MySQL has been created and the functionalities of the system has been verified.

**LAB-9**

**AIM :**

To Submit AJAX Forms with JQuery while also verifying data entered in form.

**PROCEDURE :**

**CODE :**

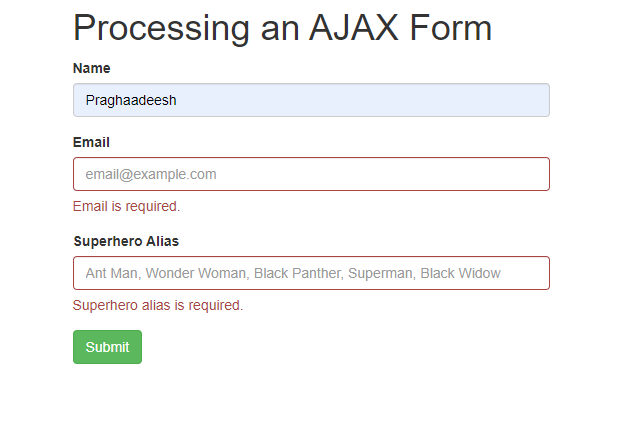
**** **Index.html :**

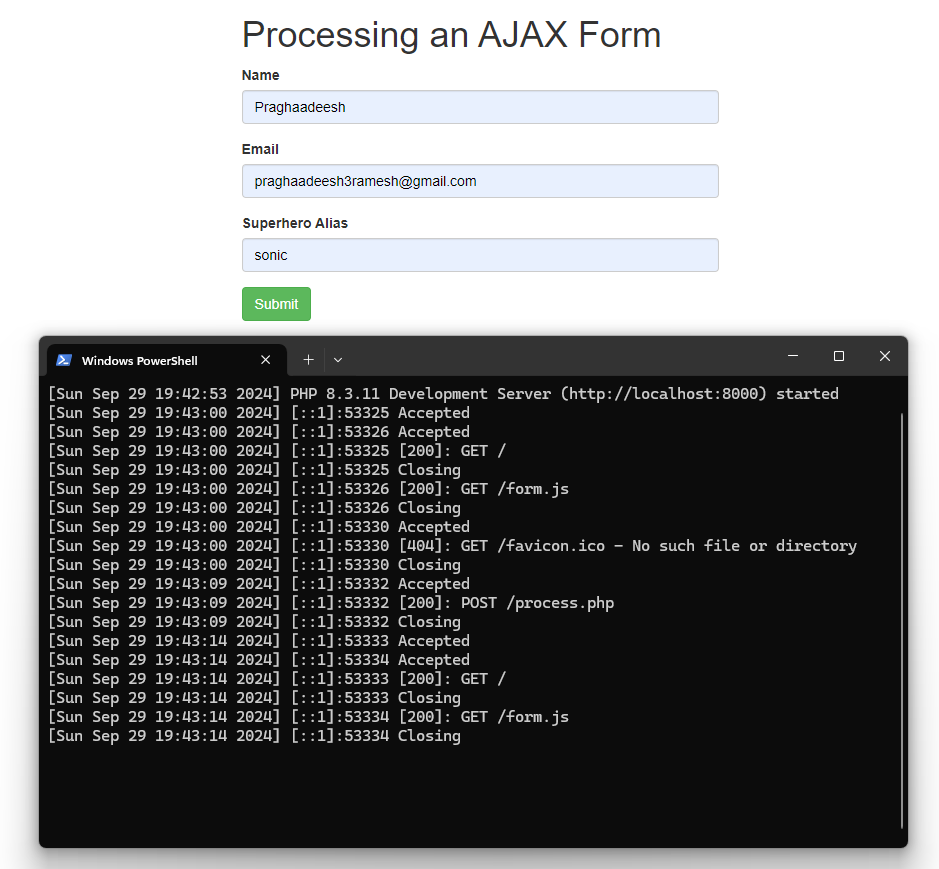
** Form.js :**

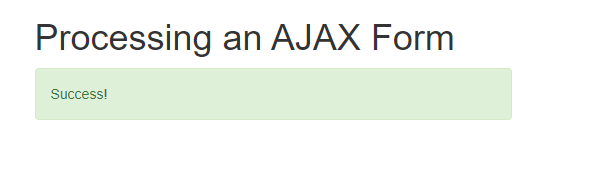
**Process.php :**

****

**OUTPUT :**

 **When all details are not entered :**

 **When all details are entered :**



**RESULT :**

Thus, a AJAX Forms with JQuery has been created and the functionality has been verified.

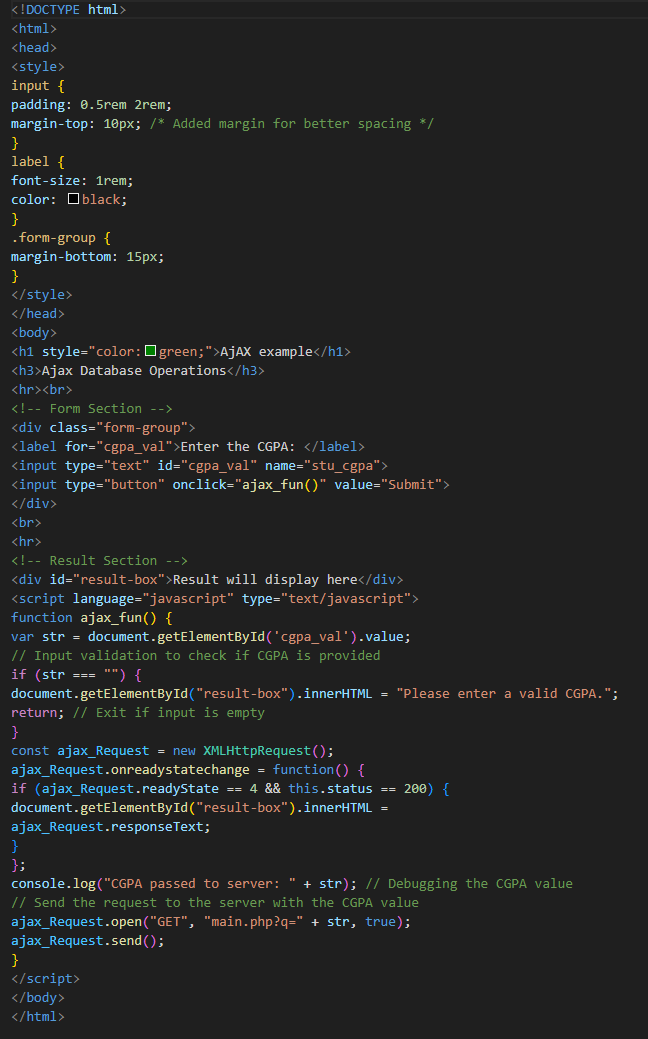
**LAB-10**

**AIM :**

To perform AJAX Database Operations by creating a form for retrieving student data based on CGPA entered by the user into a ajax form.

**PROCEDURE :**

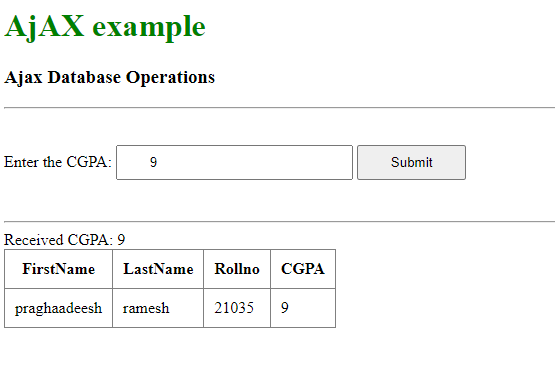
**CODE :**

 **Index.html :**

** Main.php :**

**Database entries :**



 **OUTPUT :**

**RESULT :**

Thus, AJAX Database Operations have been performed on a student database to retrieve student data using CGPA entered by user.