WEB TECHNOLOGY LAB MANUAL

Educate Elevate Enlighten

JSS Mahavidyapeetha

JSS Science And Technology University

(Established Under JSS Science and Technology University Act No. 42 of 2013)

Course Title: Web Technology Laboratory	***Course Code: 20CS68L***
Credits: 1.5	***Contact Hours (L: T: P): 0:0:39***
Type of Course: Practical	***Category: Professional Core Course***
CIE Marks: 50	***SEE Marks: 50***

Pre-requisite: Knowledge programming, Database Systems and Networks.

Course Objectives: The course should enable the students to:

Sl. No.	Course Objectives
1	Design static and dynamic web pages.
2	Familiarize with client side and server side programming.
3	Learn database connectivity to web applications.

Weeks	List of Programs	No. of Hours
1	Design web a page for the department timetable containing a suitable header, footer, description of the course codes and titles, faculty name and initialises, etc., use *href*, list tags and add University logo as a background. Using *table* tag and additional features like spanning rows, columns and table borders. [Refer your class timetable]	3
2	a) Create a form to collect Student feedback. (Use textbox, text area, checkbox, radio button, select box etc.). b) Create a web page using frame. Divide the page into two parts with Navigation links on left hand side of page (width=20%) and content page on right hand side of page (width = 80%). On clicking the navigation Links corresponding content must be shown on the right-hand side.	3
3	a) Create a web page using frame. Divide the page into two parts with Navigation links on left hand side of page (width=20%) and content page on right hand side of page (width = 80%). On clicking the navigation Links corresponding content must be shown on the right-hand side. b) Write HTML code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns fill each frame with a different background colour.	3
4	Create your resume using HTML tags also experiment with colors, text (bold, italic and different headings), image, link, size and also other related tags.	3
5	Design a web page using CSS with suitable design for the following: i.Demonstrate different font styles ii.Control the repetition of image with background-repeat property iii.Define style for links as a: link, a: active, a: hover, a: visited iv.Demonstrate Element visibility property	3
6	a) Design a web page of your institute (week-1) with an attractive background color, text color, an Image, font etc. (use internal CSS). Use External CSS to format the class timetable. b) Use External, Internal, and Inline CSS to format resume that you created in Week 4	3

7	a) Develop simple calculator for Addition, Subtraction, Multiplication and Division operation using JavaScript. b) Create HTML Page that contains form with fields Name, Email, Mobile No, Gender, Favorite Color and a button. Write a JavaScript code to validate all the fields when the button is clicked, later combine and display the information in textbox.	3
8	Write an XHTML document which displays a form containing text elements to input register number, sub-code, marks in three tests and a button element. Also write Java script compute the average of two best tests on click of button and print average marks using alert. Validate all the fields using JavaScript.	3
9	Develop an XHTML document and Java script to validate the following fields in a registration page: i. User ID (must be of length 5 to 12) ii. Name (only alphabets and the length should not be less than 15 characters) iii. Password (must be eight characters including one uppercase letter, one special character and alphanumeric characters) iv. E-mail (should not contain invalid addresses)	3
10	a) Write a PHP script to display today's date in dd-mm-yyyy format. b) Write a PHP script to check whether the number is prime or not when user input a valid number from client side.	3
11	Create HTML page that contain textbox, submit / reset button. Write PHP script to display this information and also store into a text file.	3
12	Write a PHP script for login authentication. Design an HTML form which takes Username and Password from user and validate against stored Username and Password in a file.	3
13	**Lab Test/Event**	3

Reference Books:

Sl. No.	Author/s	Title	Publisher Details
1	Randy Connolly, Ricardo Hoar	Fundamentals of Web Development	2nd Edition, Pearson Education India. 2017.
2	Zak Ruvalcaba Anne Boehm	Murach's HTML5 and CSS3	3rd Edition, Murachs/Shroff Publishers & Distributors Pvt Ltd, 2016.
3	Luke Welling, Laura Thomson	PHP and MySQL Web Development	5th Edition, Pearson Education, 2016.
4	Nicholas C Zakas	Professional JavaScript for Web Developers	3rd Edition, Wrox/Wiley India, 2012.

Web Resources:

Sl. No.	Web Link
1	http://nptel.ac.in/courses/106105084/
2	https://nptel.ac.in/courses/106/106/106106156/

1. **Design web a page for the department timetable containing a suitable header, footer, description of the course codes and titles, faculty name and initialises, etc., use href, list tags and add University logo as a background. Using table tag and additional features like spanning rows, columns and table borders. [Refer your class timetable.**

Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Time Table</title>
    <style type="text/css">
        body {
    font-family: sans-serif;
}
table {
    border-collapse: collapse;
    margin: 10px auto;
}
.flex{
    display: flex;
    justify-content: space-evenly;
    align-items: center;
}
.center{
    text-align: center;
}
header{
    text-align: center;
}
img{
    height: 100px;
    max-width: 200px;
}
table th {
    width: 1%;
    padding: 7px;
    text-align: center;
}
    </style>
  </head>

  <body>
    <header class="flex">
      <img src="jss (1).jpg" alt="Logo" />
      <div>
        <p>JSS MAHAVIDYAPEETHA</p>
        <p>JSS SCIENCE AND TECHNOLOGY UNIVERSITY</p>
        <h3>SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING MYSORE</h3>
      </div>
      <img src="sjcejpg" alt="Logo" />
```

```
    </header>
    <main>
      <section>
        <div class="center">
          <h4>DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING</h4>
          <p>TIME TABLE FOR THE ACADEMIC YEAR 2023-2024 (EVEN SEMESTER)-
U.G.</p>
        </div>
        <div class="flex">
          <p>Semester: VI</p>
          <p>Section: "E"</p>
          <p>Room No.: IS-Seminar-hall</p>
        </div>
      </section>
      <section>
        <table border="2" class="center">
          <tr>
            <th>DAY</th>
            <th>07:30-08:30</th>
            <th>08:30-09:30</th>
            <th>09:30-10:30</th>
            <th>10:30-11:00</th>
            <th>11:00-11:50</th>
            <th>11:50-12:40</th>
            <th>12:40-01:30</th>
            <th>01:30-02:30</th>
            <th>02:30-03:30</th>
            <th>03:30-04:30</th>
            <th>04:30-05:30</th>
          </tr>
          <tr>
            <td>MON</td>
            <td></td>
            <td></td>
            <td>OE-II</td>
            <td rowspan="6">Break</td>
            <td>
              <p>20CS641/</p>
              <p>20CS642/</p>
              <p>20CS643</p>
            </td>
            <td>20HU612</td>
            <td>20CS610</td>
            <td rowspan="6">Break</td>
            <td></td>
            <td></td>
            <td></td>
          </tr>
          <tr>
            <td>TUE</td>
            <td></td>
            <td></td>
            <td>OE-III</td>
            <td>
                <p>20CS610</p>
                <p>[CS002]</p>
            </td>
```

```
        <td><p>20CS620</p>
            <p>[CS002]</p>
        </td>
        <td>
            <p>20HU612</p>
            <p>[CS002]</p>
        </td>
        <td></td>
        <td></td>
        <td></td>
      </tr>
      <tr>
        <td>WED</td>
        <td></td>
        <td>
            <p>20CS641/</p>
            <p>20CS642/</p>
            <p>20CS643</p>
          </td>
        <td>OE-II</td>
        <td colspan="3">
            <p>20CS630P E2</p>
            <p>HW LAB</p>
            <p>[11.00-1.00]</p>
        </td>
        <td></td>
        <td></td>
        <td></td>
      </tr>
      <tr>
        <td>THURS</td>
        <td></td>
        <td>
            <p>20CS630</p>
            <p>[CS002]</p>
        </td>
        <td>OE-III</td>
        <td colspan="3">
            <p>20CS67L E2</p>
            <p>SW LAB 1</p>
            <hr>
            <p>20CS68L E1</p>
            <p>SW LAB 2</p>
        </td>
        <td><p>
            20CS630
        </p>
        <p>[CS002]</p>
    </td>
        <td>
            <p>20CS610</p>
            <p>[CS002]</p>
        </td>
        <td>
          <p>20CS620/</p>
          <p>[CS002]</p>
        </td>
```

```
        </tr>
        <tr>
          <td>FRI</td>
          <td></td>
          <td>
              <p>20CS641/</p>
              <p>20CS642/</p>
              <p>20CS643</p>
            </td>
          <td>OE-II</td>
          <td>
              <p>20CS630/</p>
              <p>[CS101]</p>
          </td>
          <td> <p>20CS610/</p>
              <p>[CS101]</p></td>
          <td> <p>20CS620/</p>
              <p>[CS101]</p>
          </td>
          <td colspan="2">
              <p>20CS630P E1</p>
              <p>HW LAB</p>
              <p>[2.30-4.30]</p>
          </td>
          <td></td>
        </tr>
        <tr>
          <td>SAT</td>
          <td></td>
          <td></td>
          <td>OE-III</td>
          <td colspan="3" class="lab">
              <p>20CS67L E1</p>
              <p>SW LAB 1</p>
              <hr>
              <p>20CS68L E2</p>
              <p>SW LAB 2</p>
          </td>
          <td></td>
          <td></td>
          <td></td>
        </tr>
      </table>
    </section>
    <section>
      <table border="2" class="center table2">
        <thead>
          <tr>
            <th>Sub. Code</th>
            <th>Subject Title</th>
            <th>Credits</th>
            <th>Course Instructor</th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>20CS610</td>
```

```
    <td>Machine Learning</td>
    <td>4</td>
    <td>Prof. SNM</td>
  </tr>
  <tr>
    <td>20CS620</td>
    <td>Web Technology</td>
    <td>3</td>
    <td>Prof. VS</td>
  </tr>
  <tr>
    <td>20CS630</td>
    <td>Internet of Things</td>
    <td>3</td>
    <td>Prof. SGC</td>
  </tr>
  <tr>
    <td>
      <p>20CS641</p>
      <p>20CS642</p>
      <p>20CS643</p>
    </td>
    <td>
      <p>Cloud Computing</p>
      <p>Automative Cyber Security</p>
      <p>Cyber Security</p>
    </td>
    <td>3</td>
    <td>
      <p>Prof. MAA</p>
      <p>Prof. HDN</p>
      <p>Prof. SPM / Prof. RP/Prof RK</p>
    </td>
  </tr>
  <tr>
    <td>20CS65X</td>
    <td>Open Elective - II</td>
    <td>3</td>
    <td></td>
  </tr>
  <tr>
    <td>20CS66X</td>
    <td>Open Elective - III</td>
    <td>3</td>
    <td></td>
  </tr>
  <tr>
    <td>20CS67L</td>
    <td>Machine Learning Laboratory</td>
    <td>1.5</td>
    <td></td>
  </tr>
  <tr>
    <td>20CS68L</td>
    <td>Web Technology</td>
    <td>1.5</td>
    <td></td>
```

```
            </tr>
            <tr>
              <td>20CS630P</td>
              <td>Internet of Things Practical</td>
              <td>1</td>
              <td></td>
            </tr>
            <tr>
              <td>20CS69P</td>
              <td>Mini Project</td>
              <td>2</td>
              <td></td>
            </tr>
          </tbody>
        </table>
      </section>
    </main>
    <footer class="flex center">
      <div>
        <h4>Dr. Srinath. S</h4>
        <h4>HOD, Dept. of CS&E</h4>
      </div>
      <div>
        <h4>Dr. C Nataraju</h4>
        <h4>Principal, SJCE / Dean Engineering, JSSSTU</h4>
      </div>
    </footer>
  </body>
</html>
```

OUTPUT:

JSS MAHAVIDYAPEETHA
JSS SCIENCE AND TECHNOLOGY UNIVERSITY
SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING MYSORE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
TIME TABLE FOR THE ACADEMIC YEAR 2023-2024 (EVEN SEMESTER)-U.G.

Semester: VI Section: "E" Room No. IS-Seminar-hall

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MON			OE-II	Break	20CS641/ 20CS642/ 20CS643	20HU612	20CS610	Break			
TUE			OE-III		20CS610 [CS002]	20CS620 [CS002]	20HU612 [CS002]				
WED		20CS641/ 20CS642/ 20CS643	OE-II		20CS630P E2 HW LAB [11.00-1.00]						
THURS		20CS630 [CS002]	OE-III		20CS67L E2 SW LAB 1				20CS630 [CS002]	20CS610 [CS002]	20CS620/ [CS002]
					20CS68L E1 SW LAB 2						
FRI		20CS641/ 20CS642/ 20CS643	OE-II		20CS630/ [CS101]	20CS610/ [CS101]	20CS620/ [CS101]		20CS630P E1 HW LAB [2.30-4.30]		
SAT			OE-III		20CS67L E1 SW LAB 1						
					20CS68L E2 SW LAB 2						

Sub. Code	Subject Title	Credits	Course Instructor
20CS610	Machine Learning	4	Prof. SNM
20CS620	Web Technology	3	Prof. VS
20CS630	Internet of Things	3	Prof. SGC
20CS641	Cloud Computing	3	Prof. MAA
20CS642	Automative Cyber Security		Prof. HDN
20CS643	Cyber Security		Prof. SPM / Prof. RP/Prof RK
20CS65X	Open Elective - II	3	
20CS66X	Open Elective - III	3	
20CS67L	Machine Learning Laboratory	1.5	
20CS68L	Web Technology	1.5	
20CS630P	Internet of Things Practical	1	
20CS69P	Mini Project	2	

Dr. Srinath. S
HOD, Dept. of CS&E

Dr. C Nataraju
Principal, SJCE / Dean Engineering, JSSSTU

2)

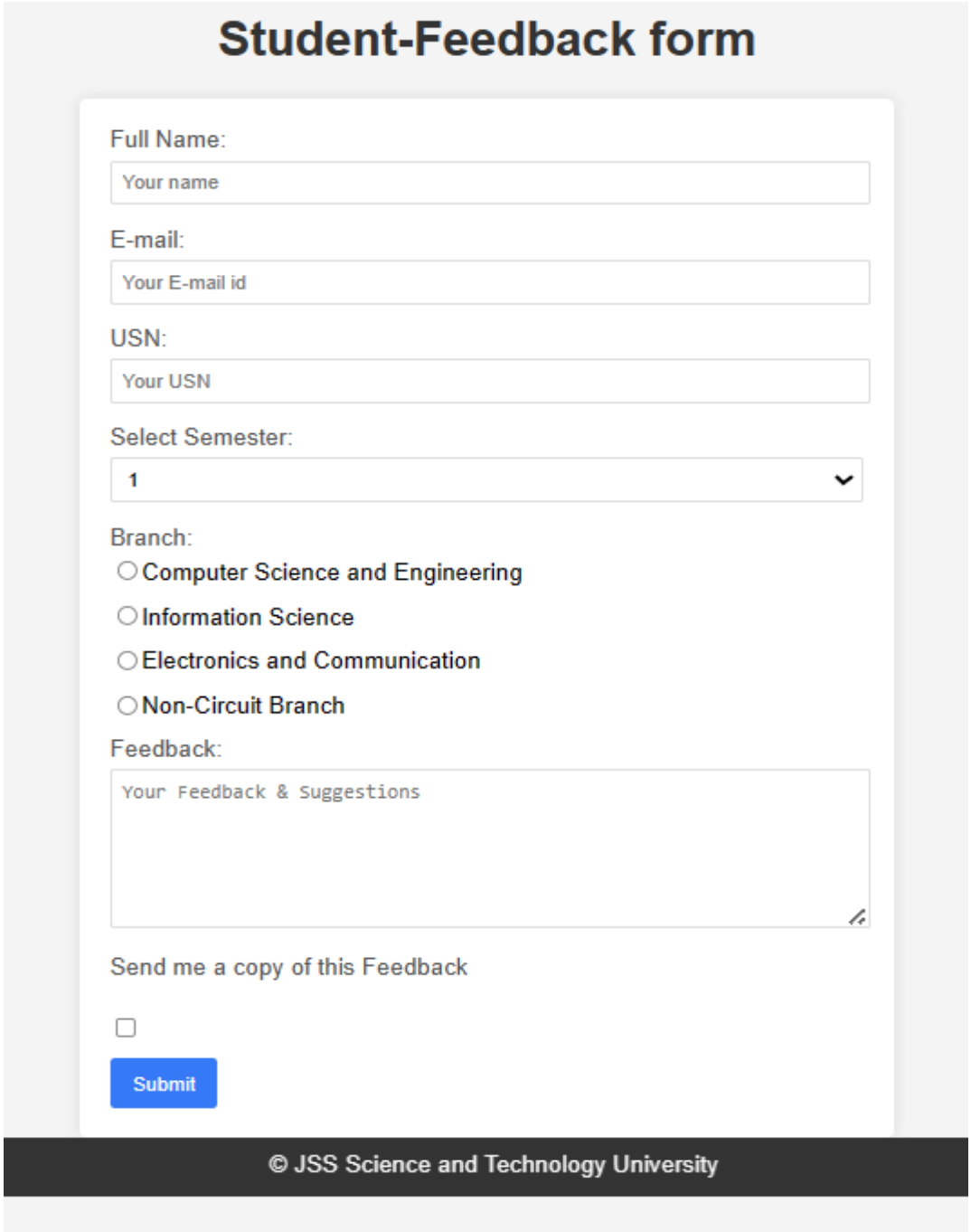
a) Create a form to collect Student feedback. (Use textbox, text area, checkbox, radio button, select box etc.

```
<!DOCTYPE html>
<html>
<head>
    <title>Student-Feedback</title>
    <style type="text/css">
        body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f4f4f4;
}
h1 {
    text-align: center;
    color: #333;
}
form {
    max-width: 500px;
    margin: 0 auto;
    background: #fff;
    padding: 20px;
    border-radius: 5px;
    box-shadow: 0 0 10px rgba(0,0,0,0.1);
}
label {
    display: block;
    margin-bottom: 5px;
    color: #555;
}
input[type="text"],
input[type="email"],
textarea {
    width: calc(100% - 12px);
    padding: 7px;
    margin-bottom: 15px;
    border: 1px solid #ddd;
    border-radius: 2px;
}
select {
    width: 100%;
    padding: 7px;
    margin-bottom: 15px;
    border: 1px solid #ddd;
    border-radius: 2px;
}
input[type="radio"],
input[type="checkbox"] {
    margin-bottom: 15px;
```

```
}
textarea {
    resize: vertical;
}
input[type="submit"] {
    background: #007bff;
    color: #fff;
    border: none;
    padding: 10px 15px;
    border-radius: 3px;
    cursor: pointer;
}
input[type="submit"]:hover {
    background: #0056b3;
    transform: scale(1.1);
}

footer {
    text-align: center;
    padding: 10px;
    background-color: #333;
    color: #fff;
}
    </style>
</head>
<body>
    <h1>Student-Feedback form</h1>
    <form>
        <label for="fname">Full Name:</label>
        <input type="text" id="fname" name="fullname" placeholder="Your
name">
        <label for="email">E-mail:</label>
        <input type="email" id="email" name="emailid" placeholder="Your E-
mail id">
        <label for="usn">USN:</label>
        <input type="text" id="usn" name="USN" placeholder="Your USN">
        <label for="sem">Select Semester:</label>
        <select name="sem">
            <option value="1" selected>1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
            <option value="5">5</option>
            <option value="6">6</option>
            <option value="7">7</option>
            <option value="8">8</option>
        </select>
        <label>Branch:</label>
        <input type="radio" name="branch" value="CS">Computer Science and
Engineering<br>
        <input type="radio" name="branch" value="IS">Information
Science<br>
        <input type="radio" name="branch" value="EC">Electronics and
Communication<br>
        <input type="radio" name="branch" value="NCB">Non-Circuit
Branch<br>
        <label for="feedback">Feedback:</label>
```

```
        <textarea rows="6" cols="50" name="feedback" placeholder="Your
Feedback & Suggestions"></textarea>
        <label for="req">Send me a copy of this Feedback</label><br>
        <input type="checkbox" name="req" id="req"><br>
        <input type="submit" value="Submit">
    </form>
</body>
<footer>
    <marquee direction="right">&copy; JSS Science and Technology
University</marquee>
</footer>
</html>
```

OUTPUT:



b) Create a web page using frame. Divide the page into two parts with Navigation links on left hand side of page (width=20%) and content page on right hand side of page (width= 80%). On clicking the navigation Links corresponding content must be shown on the right-hand side.

CONTENT.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Content</title>
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Alumni+Sans+Collegiate+One&f
amily=Cookie&family=Dancing+Script:wght@400..700&family=Ephesis&family=Kala
m:wght@700&family=Sacramento&family=Tac+One&family=Vina+Sans&display=swap"
rel="stylesheet">
<style>
body {
background-color: rgb(142, 145, 238);
text-align: center;
font-family: "Kalam", cursive;
font-weight: 300;
font-style: normal;
}
</style>
</head>

<body>
<h1>CLICK TO VIEW FAMOUS PLACES IN MYSURU</h1>
</body>
</html>
```

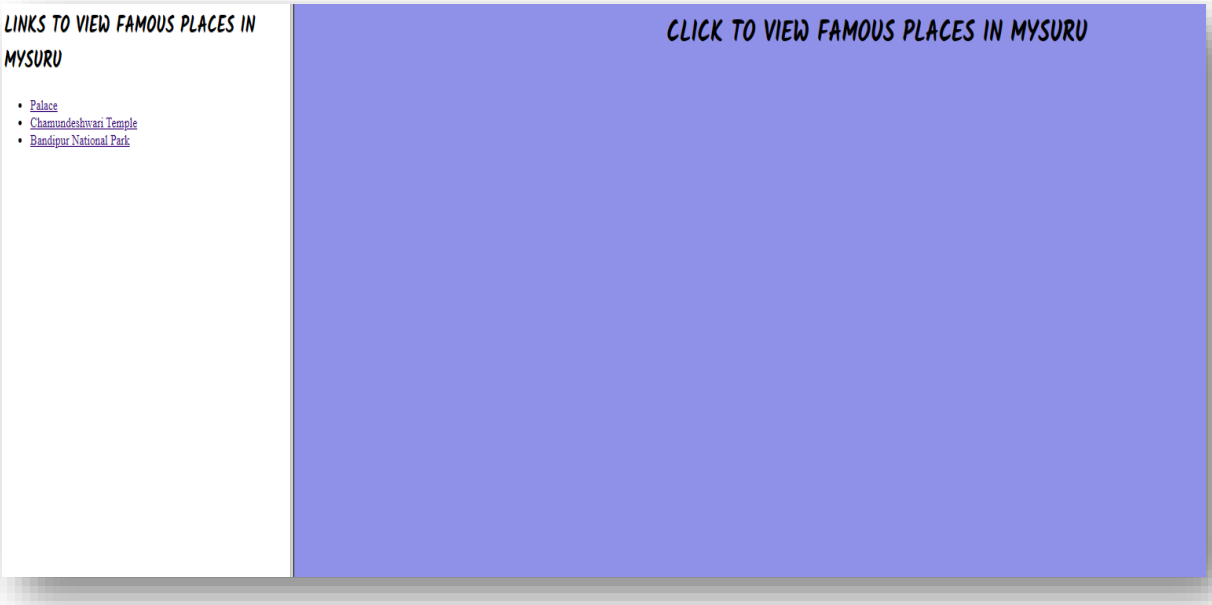
INDEX.HTML

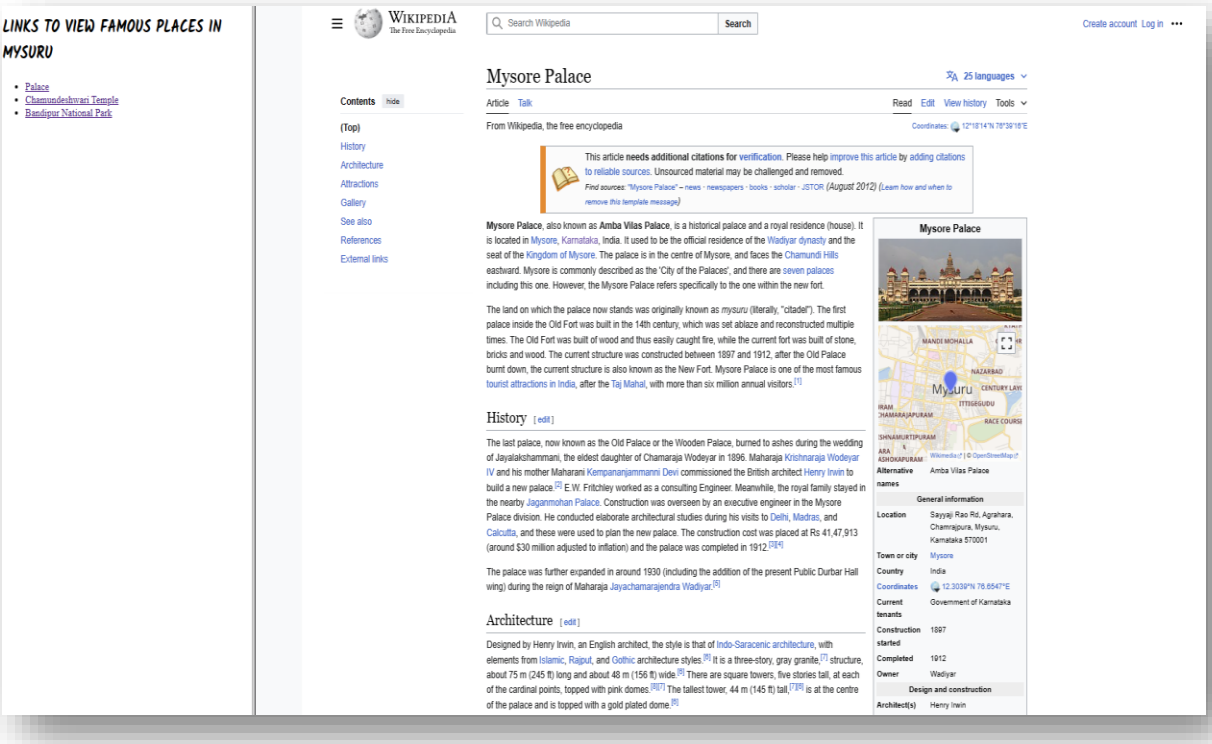
```
<!DOCTYPE html>
<html>
<head>
<title>Natural Wonders of the World</title>
</head>
<frameset cols="20%, 80%">
<frame name="links" src="links.html">
<frame name="main" src="content.html">
<noframes>
<body>Your browser does not support frames.</body>
</noframes>
</frameset>
</html>
```

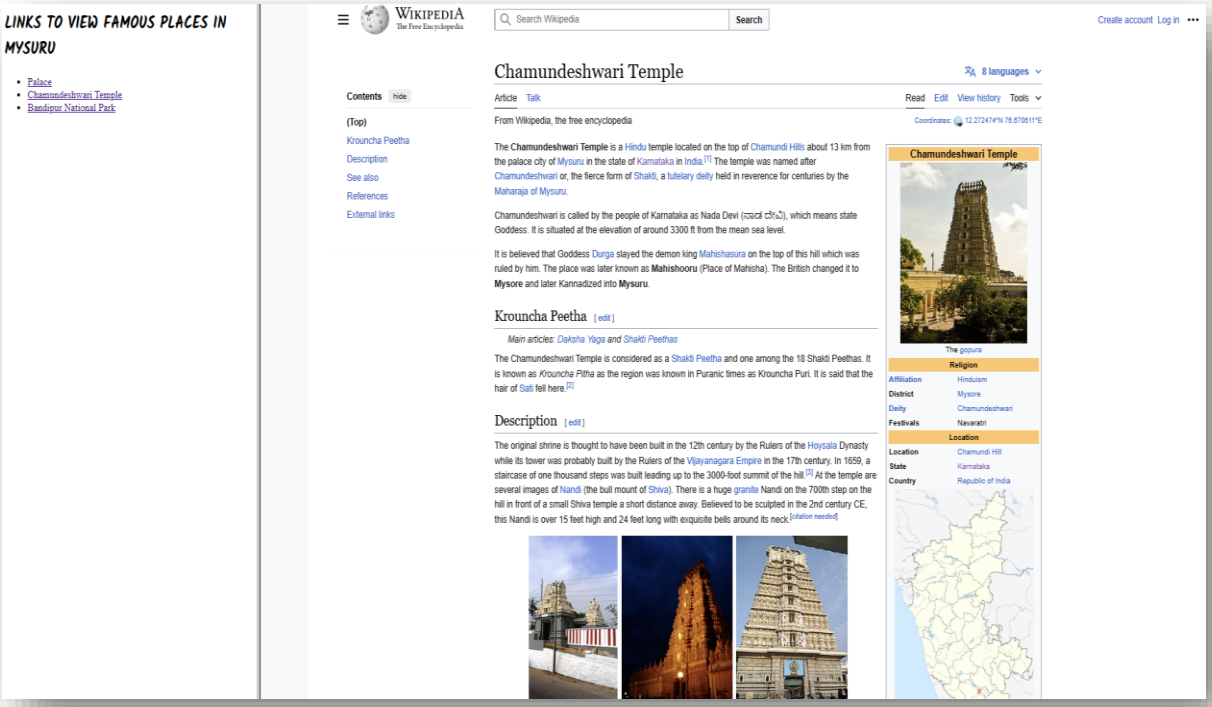
LINKS.HTML

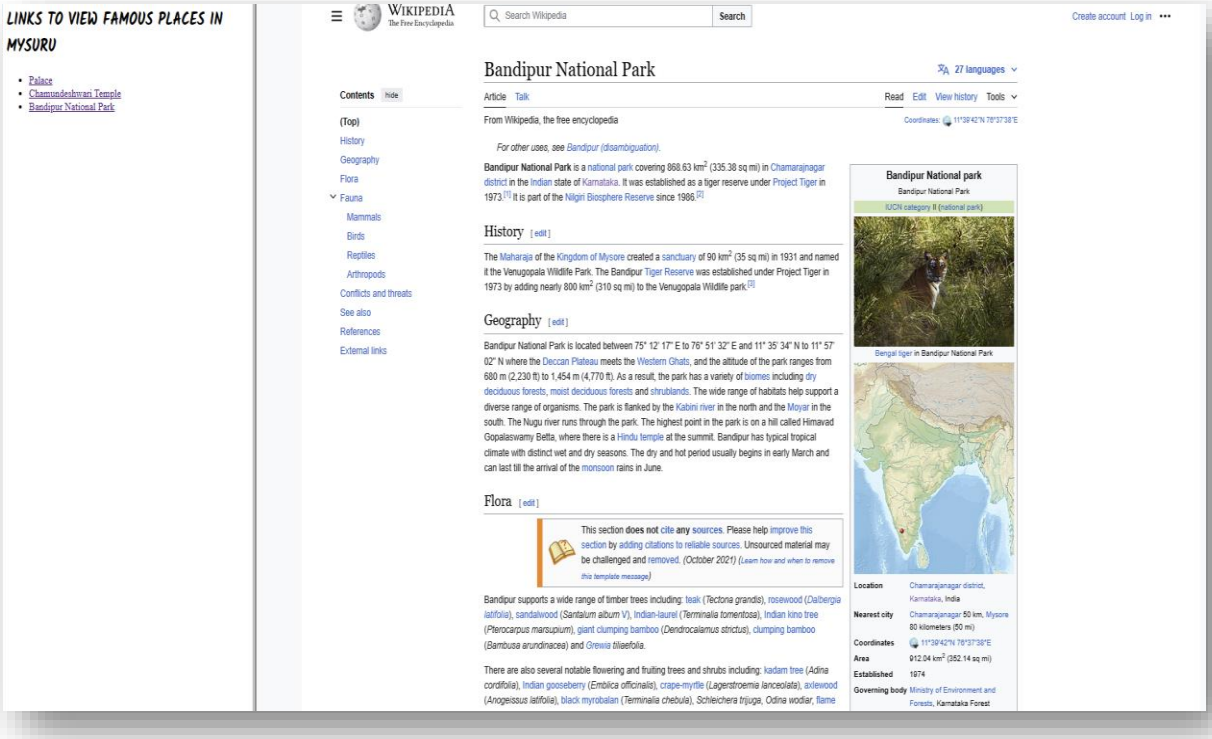
```
<!DOCTYPE html>
<html>
  <head>
    <title>Links</title>
    <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link
href="https://fonts.googleapis.com/css2?family=Alumni+Sans+Collegiate+One&f
amily=Cookie&family=Dancing+Script:wght@400..700&family=Ephesis&family=Kala
m:wght@700&family=Sacramento&family=Tac+One&family=Vina+Sans&display=swap"
rel="stylesheet">
<style>

    h2 {
        font-family: "Kalam", cursive;
  font-weight: 300;
  font-style: normal;
}
    </style>
  </head>

  <body>
    <main>
     <h2>LINKS TO VIEW FAMOUS PLACES IN MYSURU</h2>
     <ul>
      <li><a href="https://en.wikipedia.org/wiki/Mysore_Palace"
target="main"
        >Palace</a
      ></li>
     <li> <a href="https://en.wikipedia.org/wiki/Chamundeshwari_Temple"
target="main"
        >Chamundeshwari Temple</a
      ></li>
     <li> <a href="https://en.wikipedia.org/wiki/Bandipur_National_Park"
target="main"
        >Bandipur National Park</a
      ></li>
    </ul>
    </main>
  </body>
</html>
```

OUTPUT:


LINKS TO VIEW FAMOUS PLACES IN MYSURU
Palace
Chamundeshwari Temple
Bandipur National Park
CLICK TO VIEW FAMOUS PLACES IN MYSURU


LINKS TO VIEW FAMOUS PLACES IN MYSURU
Palace
Chamundeshwari Temple
Bandipur National Park
WIKIPEDIA
The Free Encyclopedia
Search Wikipedia
Search
Create account Log in
Mysore Palace
25 languages
Contents hide
(Top)
History
Architecture
Attractions
Gallery
See also
References
External links
Article Talk
Read Edit View history Tools
From Wikipedia, the free encyclopedia
This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed.
Mysore Palace, also known as Amba Vilas Palace, is a historical palace and a royal residence (house). It is located in Mysore, Karnataka, India. It used to be the official residence of the Wadiyar dynasty and the seat of the Kingdom of Mysore. The palace is in the centre of Mysore, and faces the Chamundi Hills eastward. Mysore is commonly described as the 'City of the Palaces', and there are seven palaces including this one. However, the Mysore Palace refers specifically to the one within the new fort.
The land on which the palace now stands was originally known as mysuru (literally, "citadel"). The first palace inside the Old Fort was built in the 14th century, which was set ablaze and reconstructed multiple times. The Old Fort was built of wood and thus easily caught fire, while the current fort was built of stone, bricks and wood. The current structure was constructed between 1897 and 1912, after the Old Palace burnt down, the current structure is also known as the New Fort. Mysore Palace is one of the most famous tourist attractions in India, after the Taj Mahal, with more than six million annual visitors.
History
The last palace, now known as the Old Palace or the Wooden Palace, burned to ashes during the wedding of Jayalakshammani, the eldest daughter of Chamaraja Wodeyar in 1896. Maharaja Krishnaraja Wodeyar IV and his mother Maharani Kempananjammanni Devi commissioned the British architect Henry Irwin to build a new palace. E.W. Fritchley worked as a consulting Engineer. Meanwhile, the royal family stayed in the nearby Jaganmohan Palace. Construction was overseen by an executive engineer in the Mysore Palace division. He conducted elaborate architectural studies during his visits to Delhi, Madras, and Calcutta, and these were used to plan the new palace. The construction cost was placed at Rs 41,47,913 (around $30 million adjusted to inflation) and the palace was completed in 1912.
The palace was further expanded in around 1930 (including the addition of the present Public Durbar Hall wing) during the reign of Maharaja Jayachamarajendra Wadiyar.
Architecture
Designed by Henry Irwin, an English architect, the style is that of Indo-Saracenic architecture, with elements from Islamic, Rajput, and Gothic architecture styles. It is a three-story, gray granite, structure, about 75 m (245 ft) long and about 48 m (156 ft) wide. There are square towers, five stories tall, at each of the cardinal points, topped with pink domes. The tallest tower, 44 m (145 ft) tall, is at the centre of the palace and is topped with a gold plated dome.
Mysore Palace
Alternative names Amba Vilas Palace
General information
Location Sayyaji Rao Rd, Agrahara, Chamrajpura, Mysuru, Karnataka 570001
Town or city Mysore
Country India
Coordinates 12.3039°N 76.6547°E
Current tenants Government of Karnataka
Construction started 1897
Completed 1912
Owner Wadiyar
Design and construction
Architect(s) Henry Irwin


LINKS TO VIEW FAMOUS PLACES IN MYSURU
Palace
Chamundeshwari Temple
Bandipur National Park
WIKIPEDIA
Search Wikipedia
Search
Create account Log in
Chamundeshwari Temple
8 languages
Contents hide
(Top)
Krouncha Peetha
Description
See also
References
External links
From Wikipedia, the free encyclopedia
The Chamundeshwari Temple is a Hindu temple located on the top of Chamundi Hills about 13 km from the palace city of Mysuru in the state of Karnataka in India.
Chamundeshwari Temple
Religion
Location
Krouncha Peetha
Description


LINKS TO VIEW FAMOUS PLACES IN MYSURU
Palace
Chamundeshwari Temple
Bandipur National Park
WIKIPEDIA
Search Wikipedia
Search
Create account Log in
Bandipur National Park
27 languages
Contents hide
(Top)
History
Geography
Flora
Fauna
Mammals
Birds
Reptiles
Arthropods
Conflicts and threats
See also
References
External links
From Wikipedia, the free encyclopedia
Bandipur National park
History
Geography
Flora

3)

a. **Create a web page using frame. Divide the page into two parts with Navigation links on left hand side of page (width=20%) and content page on right hand side of page (width 80%). On clicking the navigation Links corresponding content must be shown on the right-hand side.**

b. **(REFER 2 (B))**

c. **Write HTML code to develop a webpage having two frames that divide the webpage into two equal rows and then divide the row into equal columns fill each frame with a different background colour.**

BOTTOM_RIGHT.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bottom Right</title>
  <style>
    body {
      background-color: rgb(211, 97, 3);
    }
  </style>
</head>
<body>
  <h1>BOTTOM RIGHT BLOCK</h1>
</body>
</html>
```

BOTTOM_LEFT.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bottom Left</title>
  <style>
    body {
      background-color: rgb(44, 15, 236);

    }
    h1
      {color: aliceblue;
    }
  </style>
</head>
<body>
  <h1>BOTTOM LEFT BLOCK</h1>
</body>
```

```
</html>
```

INDEX.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Background Split</title>
</head>
<frameset cols="50%, 50%">
  <frameset rows="50%, 50%">
    <frame src="top-left.html" name="tl">
    <frame src="bottom-left.html" name="bl">
  </frameset>
  <frameset rows="50%, 50%">
    <frame src="top-right.html" name="tr">
    <frame src="bottom-right.html" name="br">
  </frameset>
  <noframes>
    <body>
      Your Browser does not support frames.
    </body>
  </noframes>
</frameset>
</html>
```

TOP_RIGHT.HTML

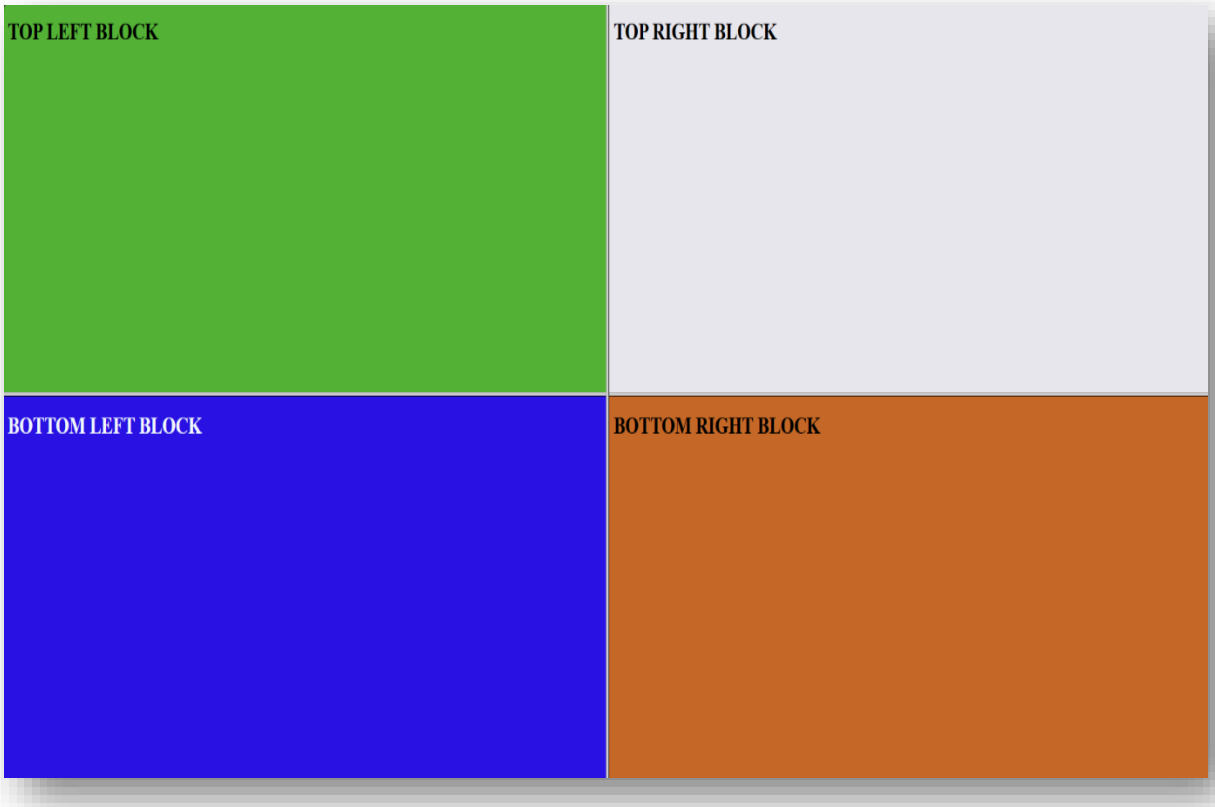
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Top Right</title>
  <style>
    body {
      background-color: rgb(231, 230, 237);
    }
  </style>
</head>
<body>
  <h1>TOP RIGHT BLOCK</h1>
</body>
</html>
```

TOP_LEFT.HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Top Left</title>
  <style>
    body {
```

```
      background-color: rgb(21, 180, 9);
    }
  </style>
</head>
<body>
  <h1>TOP LEFT BLOCK</h1>
</body>
</html>
```

OUTPUT:



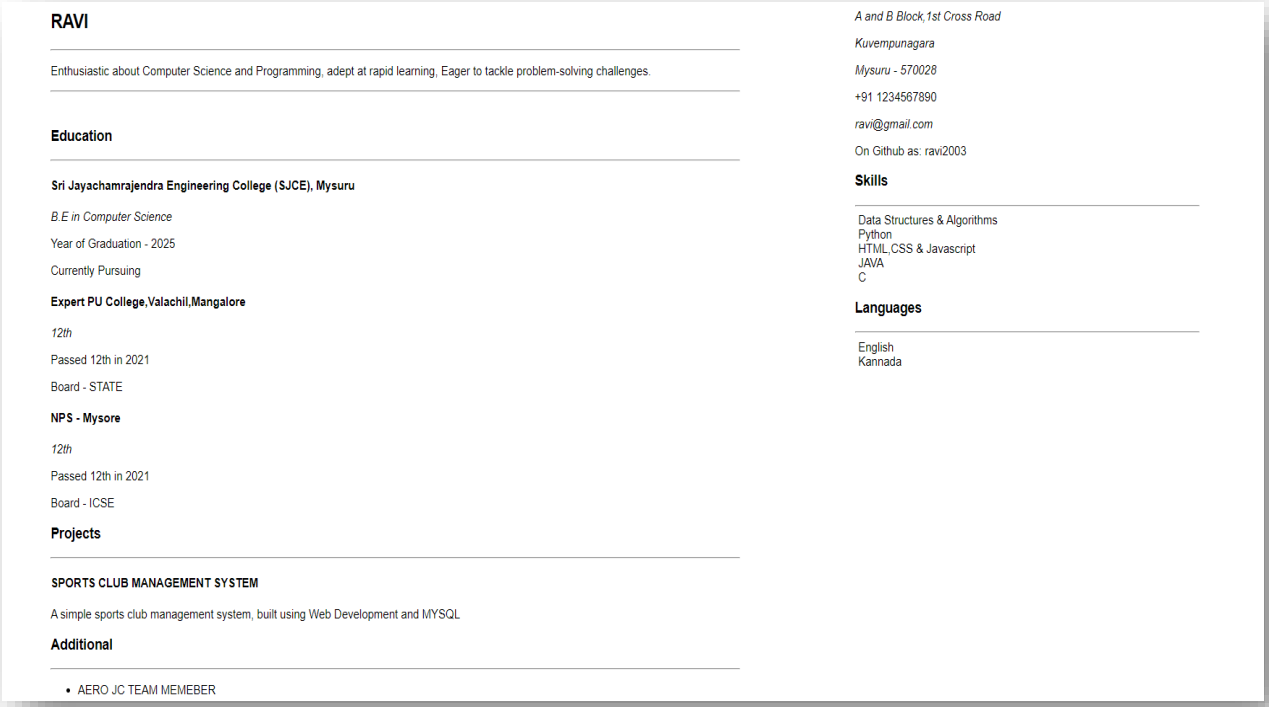
4.Create your resume using HTML tags also experiment with colors, text (bold, italic and different headings), image, link, size and also other related tags.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<style>
body {
font-family: sans-serif;
display: flex;
justify-content: space-evenly;
}
#sec-1 {
width: 50%;
}

#sec-2 {
width: 25%;
}

.skill-list,.lang-list {

}
h1{
color: rgb(0, 0, 0);
}
h3{
color: rgb(96, 96, 194);
}
.text{
color: rgb(79, 5, 5);
}
</style>
<title>Resume</title>
</head>
<body>
<section id="sec-1">
<h1>RAVI</h1>
<hr />
<p class="text">
Enthusiastic about Computer Science and Programming, adept at rapid
learning, Eager to tackle problem-solving challenges.
</p><hr>
<br />
<div>
<h3>Education</h3>
<hr />
<div>
<h4>Sri Jayachamrajendra Engineering College (SJCE), Mysuru</h4>
<i><p>B.E in Computer Science</p></i>
<p>Year of Graduation - 2025</p>
```

```
<p>Currently Pursuing</p>
</div>
<div>
<h4>PU COLLEGE</h4>
<i><p>12th</p></i>
<p>Passed 12th in 2021</p>
<p>Board - STATE</p>
</div>
<div>
<h4>SCHOOL</h4>
<i><p>12th</p></i>
<p>Passed 12th in 2021</p>
<p>Board - ICSE</p>
</div>
</div>
<div>
<h3>Projects</h3>
<hr />
<div>
<h4>SPORTS CLUB MANAGEMENT SYSTEM</h4>
<ul>
<li>A simple sports club management system, built using Web Development
and MYSQL</li>
</ul>
</div>
<div>
<h4>CHAT APP WITH SPAM DETECTION</h4>
<ul>
<li>Using Flutter,Machine Learning and Web Development</li>
</ul>
</div>
</div>

</section>
<section id="sec-2">
<div>
<address>
<p>A and B Block,1st Cross Road</p>
<p>Kuvempunagara</p>
<p>Mysuru - 570022</p>
</address>
<p>+91 1234567891</p>
<address>WEBTEC@gmail.com</address>
<p>On Github as: WEBTECH</p>
</div>
<div>
<h3>Skills</h3>
<hr />
<ul class="skill-list">
<li>Data Structures & Algorithms</li>
<li>Python</li>
<li>HTML,CSS & Javascript</li>
<li>JAVA</li>
<li>C</li>
</ul>
</div>
<div>
```

```
<h3>Languages</h3>
<hr />
<ul class="lang-list">
<li>English</li>
<li>Kannada</li>
</ul>
</div>

</section>
</body>
</html>
```

OUTPUT



RAVI

Enthusiastic about Computer Science and Programming, adept at rapid learning, Eager to tackle problem-solving challenges.

Education

Sri Jayachamrajendra Engineering College (SJCE), Mysuru

B.E in Computer Science

Year of Graduation - 2025

Currently Pursuing

Expert PU College,Valachil,Mangalore

12th

Passed 12th in 2021

Board - STATE

NPS - Mysore

12th

Passed 12th in 2021

Board - ICSE

Projects

SPORTS CLUB MANAGEMENT SYSTEM

A simple sports club management system, built using Web Development and MYSQL

Additional

- AERO JC TEAM MEMEBER

A and B Block,1st Cross Road

Kuvempunagara

Mysuru - 570028

+91 1234567890

ravi@gmail.com

On Github as: ravi2003

Skills

Data Structures & Algorithms
Python
HTML,CSS & Javascript
JAVA
C

Languages

English
Kannada

5. Design a web page using CSS with suitable design for the following:

1. Demonstrate different font styles
2. Control the repetition of image with background-repeat property
3. Define style for links as a link, a: active, a: hover, a: visited
4. Demonstrate Element visibility property

Index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Design Example</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
  <section>

    <h1 class="heading">1. different font styles
    </h1>
    <p class="normal">WEB TECHNOLOGY <p>[This is a normal paragraph]</p></p>
    <p class="italic">WEB TECHNOLOGY <p>[This paragraph is italic]</p></p>
    <p class="oblique">WEB TECHNOLOGY <p>[This paragraph is oblique]</p></p>
    <p class="bold">WEB TECHNOLOGY <p>[This paragraph is bold]</p></p>
    <p  class="small-caps">WEB  TECHNOLOGY  <p>[this  paragraph  is  small
caps]</p></p>

    <h1>This is h1</h1>
    <h2>This is h2</h2>
    <h6>This is h6</h6>
    <h3>Link Styles</h3>
  </section>
  <section>
    <h1 class="heading">2. style for links as a: link, a: active, a: hover,
a: visited
    </h1>
    <p class="links">Active: Green <br> Visited: Orange <br> Hover: red <br>
Link:blue</p>
    <ul>
      <li><a href="#1">Link 1</a></li>
      <li><a href="#2">Link 2</a></li>
      <li><a href="#3">Link 3</a></li>
      <li><a href="#4">Link 4</a></li>
    </ul>
  </section>
    <section>
      <h1 class="heading">3. Element visibility property </h1>
      <p>This paragraph demonstrates the element visibility property.</p>
      <div class="hidden-element">
```

```
        This element is hidden.
      </div>
    </section>
    <section>
      <h1 class="heading">4. Background repeat</h1>
      <div class="bg repeat"></div>
      <h1 class="heading">4.Background no repeat</h1>
      <div class="bg norepeat"></div>
    </section>

    </body>
    </html>
```

Style.css

```
h1.heading{
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    color: rgb(255, 0, 34);
    text-decoration: double;
    text-transform: uppercase;
  }
  h1 {
    font-family: Arial, sans-serif;

  }

  p {
    font-family: 'Times New Roman', serif;
  }

  a{
    font-size: 25px;
  }

  a:link {
    color: blue;
    text-decoration: none;
  }

  a:visited {
    color: orange;
  }

  a:hover {
    color: red;
    text-decoration: underline;
  }

  a:active {
    color: green;
  }

  .hidden-element {
    visibility: hidden;
  }

  .bg{
    min-height: 60vh;
```

```
  }
  .norepeat{
    background: url('./logo.png') no-repeat;
  }
  .repeat{
    background: url('./logo.png') ;

  }
  .normal
  {
    color: blue;
  }
  .bold{
    font-weight: bold;
    color: blue;
  }
  .italic{
    font-style: italic;
    color: blue;
  }
  .oblique{
    font-style: oblique;
    color: blue;
  }
  section{
    border: 1px solid black;
    padding: 10px;

  }
  .small-caps{
  font-variant: small-caps;
  color: blue;
}
Green{
  color: green;
}
```

OUTPUT:

5/8/24, 9:35 PM CSS Design Example

1. DIFFERENT FONT STYLES

WEB TECHNOLOGY

[This is a normal paragraph]

WEB TECHNOLOGY

[This paragraph is italic]

WEB TECHNOLOGY

[This paragraph is oblique]

WEB TECHNOLOGY

[This paragraph is bold]

WEB TECHNOLOGY

[this paragraph is small caps]

This is h1

This is h2

This is h6

Link Styles

2. STYLE FOR LINKS AS A: LINK, A: ACTIVE, A: HOVER, A: VISITED

Active: Green
Visited: Orange
Hover: red
Link:blue

- Link 1
- Link 2
- Link 3
- Link 4

3. ELEMENT VISIBILITY PROPERTY

This paragraph demonstrates the element visibility property.

127.0.0.1:3000/5/index.html#1 1/3

5/8/24, 9:35 PM CSS Design Example

4. BACKGROUND REPEAT

4.BACKGROUND NO REPEAT

127.0.0.1:3000/5/index.html#1 2/3

6.

a) Design a web page of your institute (week-1) with an attractive background color, text color, an Image, font etc. (use internal CSS), Use External CSS to format the class timetable.

Index.html

```
<!DOCTYPE html>
<html >
<head>
<title>JSSSTU</title>
<link rel="stylesheet" href="stylejss.css">
</head>
<body>
<nav>
<div><img src="./jss.png"></div>
<div>
<a href="#about">About</a>
<a href="#">Academic</a>
<a href="#">Research</a>
<a href="#">Programmes</a>
<a href="#">Placement</a>
<a href="../01/">Time Table</a>
<a href="#links">Contact</a>
</div>
</nav>
<main>
<section id="about">
<h1>Welcome To Our Campus</h1>
<p class="paragraph">
JSS STU University is built on a strong reputation of SJCE, Mysuru, and passionately committed for providing education in Science, Technology, Engineering & Mathematics (STEM) and Management. It is Steadfast to find solutions to some of the great challenges of our time through scientific research and technological innovations. The institution also has the reputation of academic excellence in professionally oriented programs, and equal proficiency in extra-curricular activities, which makes it a lucrative option for students from all over the country, especially those staying in remote places eyeing at Science and Engineering career.
</p>
<button>READ MORE</button>
</section>
<section id="links">
<h2>Quick Links</h2>
<div >
<a href="#"><h3 class="header2">Academic Notification</h3></a>
<ul>
<p class="p3">Circular: Extension of Admission Dates - BCA 2024-25</p>
<p  class="p3"> Admission Notification: Secound Round Applications (BCA) program for the Acadmic Year 2024-25 </p>
```

```
<p class="p3"> List of Selected Candidates for First Year BCA Admission 2024-25(First Round) </p>
<p class="p3"> Admission Notification: First Round Applications (BCA) program for the Acadmic Year 2024-25 </p></ul></div>
<div>
<a href="#"><h3 class="header2">EXAM Notification</h3></a>
<p class="p4">PG - Registration for Repeaters Exam for Students Admitted during AY 2021-22 and AY 2022-23.</p>
<p class="p4">Photocopy and Revaluation of III Sem BCA (Regular & Parallel Students only)</p>
<p class="p4">Photocopy and Revaluation of I Sem BE / BCA (Regular & Parallel Students only) </p>
<p class="p4">Exam Memo - Practical Examinations III sem BE (REGULAR & REPEATERS)</p>
</div>
<div class="footerh">
<h4>JSS Science and Technology University</h4>
<p>0821-123456</p>
<p>0821-678987</p>
<p>contact@jssstuuniv.in</p>
</div>
</div>

</section>
</main>
<footer>
&copy; Copyright JSS STU 2024.
</footer>
</body>
</html>
```

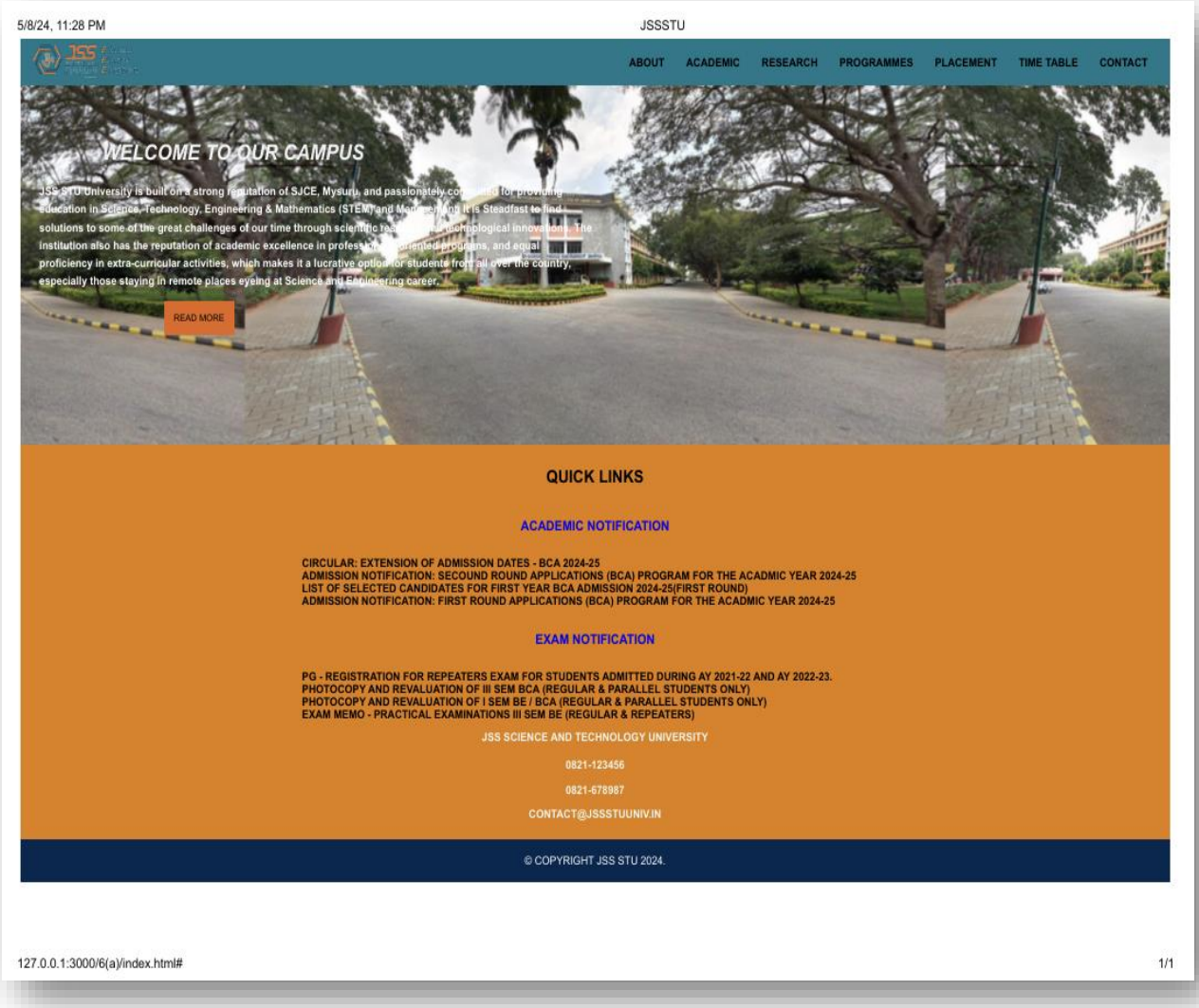
Style.css

```
body{
    margin: 0;
    font-family: sans-serif;
}
nav{
    background: rgb(6, 122, 140);
    display: flex;
    padding: 5px 20px;
    align-items: center;
    justify-content: space-between;
}
img{
    height: 50px;
}
nav a{
    color: #000000;
    text-decoration: none;
    padding: 15px;
    text-transform: uppercase;
    font-weight: bold;

}
#about{
    background: url("./logo.jpeg") center;
    height: 400px;
```

```
    padding: 50px 30px;
}
#about h1{
    color: #f2f2f2;
    font-size: 30px;
    margin-left: 100px;
    font-weight: bold;
    font-style: italic;
    text-transform: uppercase;


}
#about p{
    width: 50%;
    line-height: 25px;
}
#about button{
    margin-left: 200px;
    background-color: #e6681a;
    border: none;
    padding: 15px;

}
footer{
    background: #002851;
    text-align: center;
    color: white;
    padding: 20px;
    text-transform: uppercase;

}

#links{
    background: #e47f02;
    text-align: center;
    color: rgb(0, 0, 0);
    padding: 10px;
    text-transform: uppercase;
    font-weight: bold;
}
.container{
    display: flex;
    justify-content: space-evenly;
}
#links a{
    color: rgb(8, 8, 8);
    display: block;
    text-decoration: none;
    padding: 5px;
    text-transform: uppercase;
}
.paragraph
{
    color: white;
    font-weight: bold
}
.header2{
```

```
    color: blue;
}
p.p3{

    display: flex;
  align-items: center;
  height: 2px;
  padding-left: 400px;
}
p.p4{

    display: flex;
  align-items: center;
  height: 2px;
  padding-left: 440px;
}
div.footerh{
    color: aliceblue;
}
```

OUTPUT:



b) Use External, Internal, and Inline CSS to format resume that you created in Week 4

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="style.css">
    <style>
        /* Internal CSS */
        body {
            font-family: Arial, sans-serif;
            color: #333;
            margin: 0;
            padding: 0;
        }
        #sec-1 {
            padding: 20px;
            margin-bottom: 20px;
            border-radius: 8px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        #sec-2 {
            padding: 20px;
            border-radius: 8px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        h1,h4 {
            color: #333;
        }
        p {
            color: #666;
        }
        .skills {
            margin-top: 20px;
        }
        /* Inline CSS */
        #sec-1 h1 {
            font-size: 2em;
            margin-bottom: 10px;
        }
        #sec-1 p {
            font-size: 1.1em;
            line-height: 1.6;
        }
        .skills ul {
            list-style-type: none;
            padding: 0;
        }
        .skills li {
            margin-bottom: 5px;
```

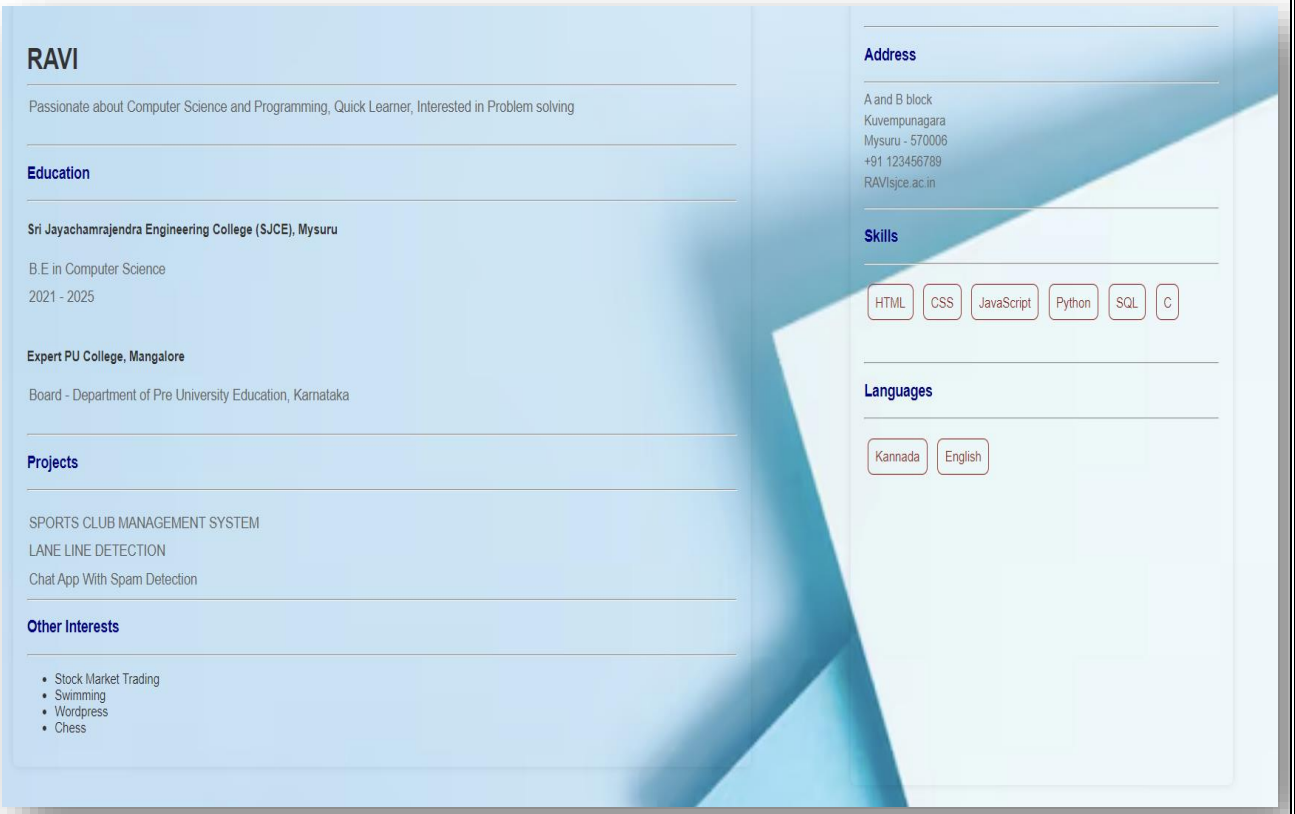
```
        }
        #sec-2 p {
            margin: 5px 0;
        }
    </style>
    <title>Resume</title>
</head>
<body>
    <section id="sec-1" style="padding: 20px; margin-bottom: 20px; border-
radius: 8px; box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);">
        <h1 style="font-size: 2em; margin-bottom: 10px;">RAVI</h1><hr>
        <p style="font-size: 1.1em; line-height: 1.6;">
            Passionate about Computer Science and Programming, Quick
Learner,
            Interested in Problem solving
        </p>
        <br />
        <hr><h3>Education</h3><hr>
        <h4>Sri Jayachamrajendra Engineering College (SJCE), Mysuru</h4>
        <p>B.E in Computer Science</p>
        <p>2021 - 2025</p>
        <br />
        <h4>Expert PU College, Mangalore</h4>
        <p>Board - Department of Pre University Education, Karnataka</p>
        <br />
        <hr><h3>Projects</h3><hr>
        <h4></h4>
        <p>SPORTS CLUB MANAGEMENT SYSTEM</p>
        <p>LANE LINE DETECTION</p>
        <p>Chat App With Spam Detection</p>
        <hr><h3>Other Interests</h3><hr>
        <ul>
            <li>Stock Market Trading</li>
            <li>Swimming</li>
            <li>Wordpress</li>
            <li>Chess</li>
        </ul>
    </section>
    <section id="sec-2" style="padding: 20px; border-radius: 8px; box-
shadow: 0 0 10px rgba(0, 0, 0, 0.1);">
        <div>
            <hr><h3>Address</h3><hr>
            <p>A and B block</p>
            <p>Kuvempunagara</p>
            <p>Mysuru - 570006</p>
            <p>+91 123456789</p>
            <p>RAVIsjce.ac.in</p>
        </div>
        <div class="skills">
            <hr><h3>Skills</h3><hr>
            <ul style="list-style-type: none; padding: 0; color:brown
            ;">
                <li style="margin-bottom: 5px;">HTML</li>
                <li style="margin-bottom: 5px;">CSS</li>
                <li style="margin-bottom: 5px;">JavaScript</li>
                <li style="margin-bottom: 5px;">Python</li>
                <li style="margin-bottom: 5px;">SQL</li>
```

```
                <li style="margin-bottom: 5px;">C</li>
            </ul>
            <br/>
            <hr><h3>Languages</h3><hr>
            <ul style="list-style-type: none; padding: 0;color:brown;">
                <li>Kannada</li>
                <li>English</li>
            </ul>
        </div>
    </section>
</body>
</html>
```

Style.css

```
body {
    font-family: sans-serif;
    display: flex;
    justify-content: space-evenly;
    margin: 50px;
    background-image:url(./logo.avif);
    background-repeat: no-repeat;
    background-size: cover;
}
#sec-1 {
    width: 50%;
}
#sec-2 {
    width: 25%;
}
h3 {
    color: darkblue;
}
.degree {
    margin: 10px 0px;
}
p {
    margin: 3px;
}
.skills li {
    display: inline-block;
    border: solid 1px;
    margin: 5px;
    padding: 10px;
    border-radius: 8px;
}
```

OUTPUT:


RAVI
Passionate about Computer Science and Programming, Quick Learner, Interested in Problem solving
Education
Sri Jayachamrajendra Engineering College (SJCE), Mysuru
B.E in Computer Science
2021 - 2025
Expert PU College, Mangalore
Board - Department of Pre University Education, Karnataka
Projects
SPORTS CLUB MANAGEMENT SYSTEM
LANE LINE DETECTION
Chat App With Spam Detection
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Stock Market Trading
Swimming
Wordpress
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Skills
HTML
CSS
JavaScript
Python
SQL
C
Languages
Kannada
English

7.

a) Develop simple calculator for Addition, Subtraction, Multiplication and Division operation using JavaScript.

Index.html

```
<!DOCTYPE html>
<html >
<head>
    <title>Calculator</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <h1 class="heading">Calculator</h1>
    <div class="container">
        <input placeholder="0"></input>
        <div class="buttons">
            <button>AC</button>
            <button>CE</button>
            <button>%</button>
            <button>/</button>
            <button>7</button>
            <button>8</button>
            <button>9</button>
            <button>*</button>
            <button>4</button>
            <button>5</button>
            <button>6</button>
            <button>-</button>
            <button>1</button>
            <button>2</button>
            <button>3</button>
            <button>+</button>
            <button>0</button>
            <button>.</button>
            <button>00</button>
            <button>=</button>
        </div>
    </div>
    <script src="script.js"></script>
</body>
</html>
```

Style.css

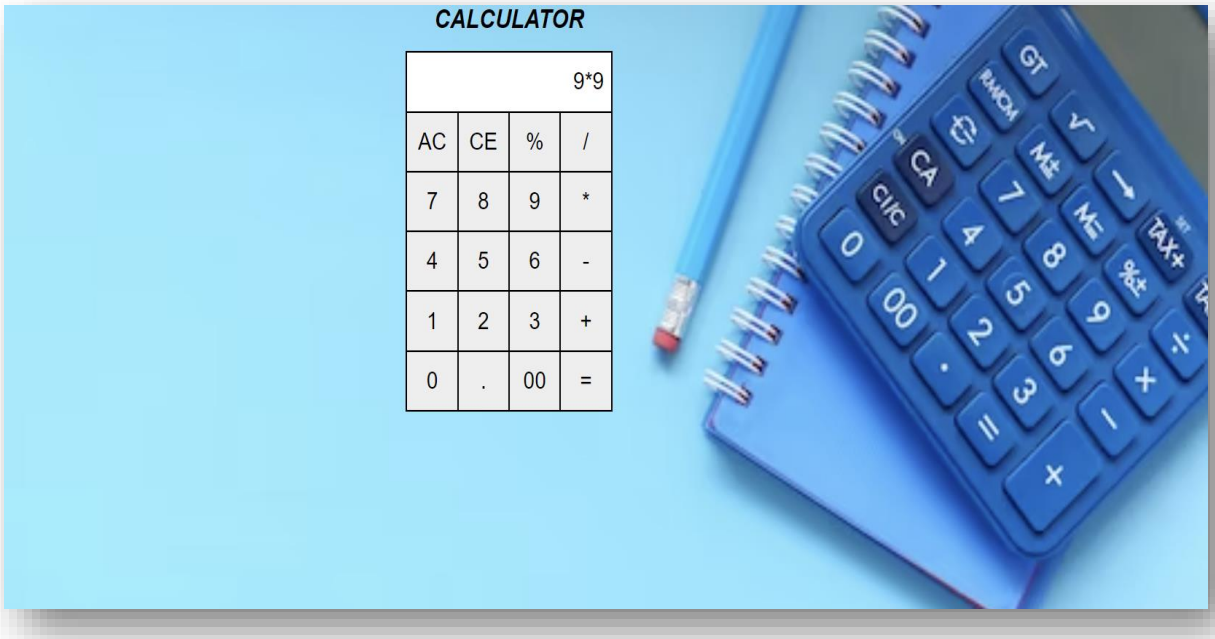
```
body{
    font-family: sans-serif;
    margin: 0;
    text-align: center;
    background-image: url(./logo.avif);
    background-repeat: no-repeat;
    background-size: cover;

}
.container{
```

```
    width: 300px;
    margin: 10px auto;
    background-color:darkgrey;
    border: 1px solid black;
}
.buttons{
    display: flex;
    flex-wrap: wrap;
}
.heading
{
    text-transform: uppercase;
    text-align: center;
    text-shadow: #eee;
    font-weight: bold;
    font-style: italic;
}
input{
    width: 100%;
    height: 75px;
    font-size: 30px;
    text-align: right;
    box-sizing: border-box;
    border: 1px solid black;
    padding: 0 10px;
}
button{
    width: 75px;
    height: 75px;
    border: 1px solid black;
    background-color: #eee;
    font-size: 30px;
}
```

Script.js

```
let buttons = document.querySelectorAll('button')
let display = document.querySelector('input')
buttons.forEach(button => {
    button.addEventListener('click', (e) => {
        let button = e.target
        if (button.innerHTML == 'AC')
            display.value = ''
        else if(button.innerHTML == '=')
            display.value = eval(display.value)
        else if(button.innerHTML == 'CE')
            display.value = display.value.slice(0, -1)
        else
            display.value += button.innerHTML
     })
})
```

OUTPUT;



7 b) Create HTML Page that contains form with fields Name, Email, Mobile No, Gender, Favorite Color and a button. Write a JavaScript code to validate all the fields when the button is clicked, later combine and display the information in textbox.

Index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Form Validation</title>
  <link rel="stylesheet" href="style.css">
  <script>
    function validateForm() {
    var name = document.getElementById("name").value;
    var email = document.getElementById("email").value;
    var mobile = document.getElementById("mobile").value;
    var gender = document.getElementById("gender").value;
    var color = document.getElementById("color").value;

    // Validation
    if (name === "") {
      alert("Please enter your name");
      return;
    }
    if (email === "" ) {
      alert("Please enter your email");
      return;
    }
    if(!email.includes(".") || !email.includes("@")){
      alert("Enter correctly");
      return;
    }
    if (mobile === "" || mobile.length!==10) {
      alert("Please enter your mobile number correctly");
      return;
    }
    if (gender === "") {
      alert("Please select your gender");
      return;
    }
    if (color === "") {
      alert("Please enter your favorite color");
      return;
    }

    // Combine and display information
    var information =
      "Name: " + name + "\n" +
      "Email: " + email + "\n" +
      "Mobile No: " + mobile + "\n" +
      "Gender: " + gender + "\n" +
      "Favorite Color: " + color;

     alert(`${information}`);
```

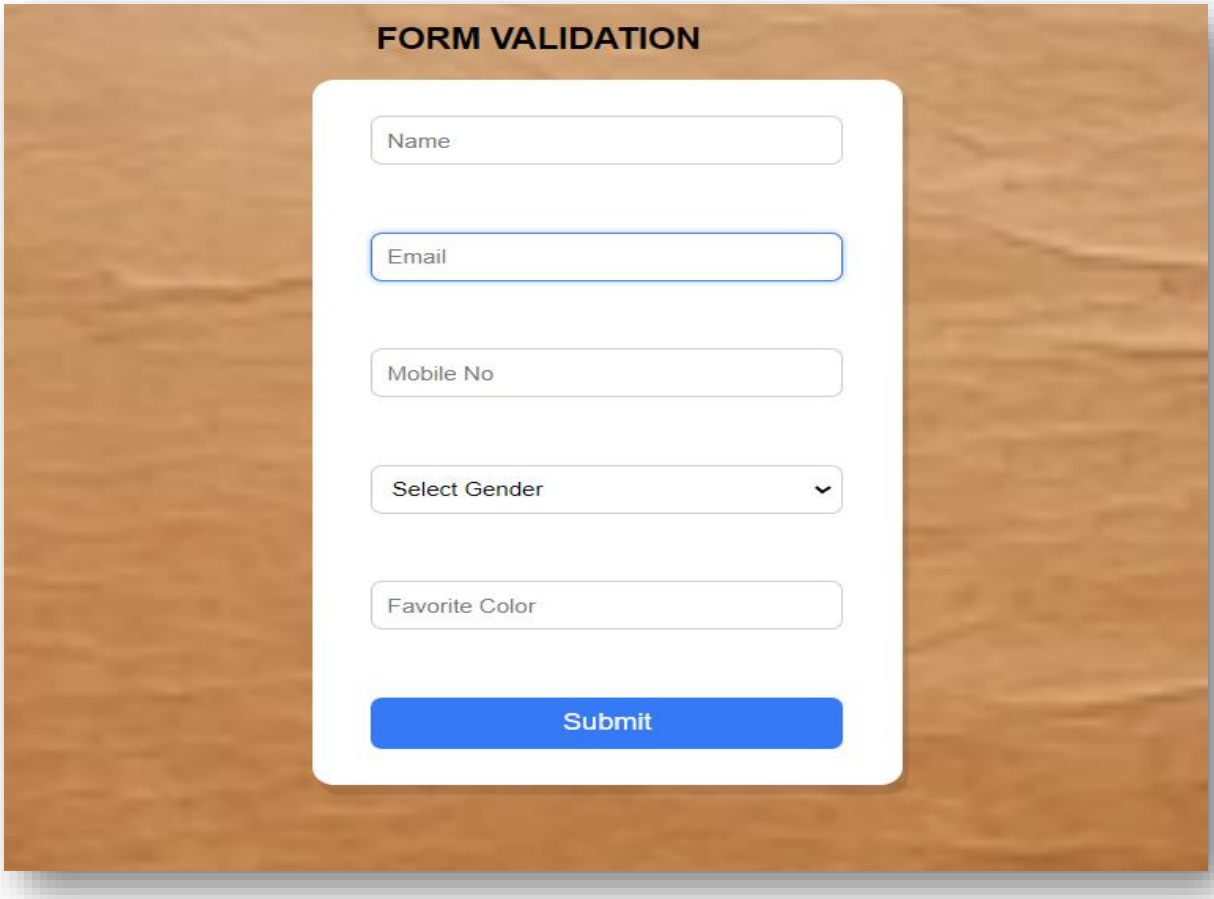
```
  }
  </script>
</head>
<body>
  <h2>Form Validation</h2>
  <div class="container" align="center">

    <div>
    <form>
      <input type="text" id="name" placeholder="Name"><br><br>
      <input type="email" id="email" placeholder="Email"><br><br>
      <input type="tel" id="mobile" placeholder="Mobile No"><br><br>
      <select id="gender"><br><br>
        <option value="">Select Gender</option>
        <option value="male">Male</option>
        <option value="female">Female</option>
      </select><br><br>
      <input type="text" id="color" placeholder="Favorite Color"><br><br>
      <button type="button" onclick="validateForm()">Submit</button>
    </form>
  </div>
</body>
</html>
```

Style.CSS

```
body {
    font-family: 'Arial', sans-serif;
    background-color: #f0f2f5;
    text-align: center;
    background-image: url(./logo.jpg!f305cw);
    background-repeat: no-repeat;
    background-size: cover;
}
.container {
    display: flex;
    justify-content: center;
    align-items: centerg;
    height: 100vh;
}
form {
    background-color: #ffffff;
    border-radius: 15px;
    box-shadow:  4px 8px rgba(0, 0, 0, 0.1);
    padding: 30px 40px;
    width: 400%;
    max-width: 400px;
    box-sizing: border-box;
}
input, select {
    display: block;
    width: 100%;
    margin-bottom: 20px;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 8px;
    box-sizing: border-box;
    font-size: 1rem;
```

```
}
input:focus, select:focus {
    outline: none;
    border-color: #007bff;
    box-shadow: 0 0 5px rgba(0, 123, 255, 0.5);
}
button {
    width: 100%;
    padding: 10px;
    font-size: 1.2rem;
    background-color: #007bff;
    color: #ffffff;
    border: none;
    border-radius: 8px;
    cursor: pointer;
}
button:hover {
    background-color: #0056b3;
}
h2 {
  text-transform: uppercase;
  text-decoration: solid;
  font-weight: bold;

}
```

OUTPUT



8. Write an XHTML document which displays a form containing text elements to input register number, sub-code, marks in three tests and a button element. Also write Java script compute the average of two best tests on click of button and print average marks using alert. Validate all the fields using JavaScript.

Index.html

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <title>Compute Average Marks</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h1>XHTML FORM TO Compute Average Marks</h1>
  <form class="container">
    <label >Register Number:</label>
    <input  >
    <br/>
    <label >Subject Code:</label>
    <input  >
    <br/>
    <label >Marks in Test 1:</label>
    <input type="number" id="marks1">
    <br/>
    <label>Marks in Test 2:</label>
    <input type="number" id="marks2">
    <br/>
    <label >Marks in Test 3:</label>
    <input type="number" id="marks3">
    <br/>
    <button type="button" onclick="calculateAverage()" class="my-button-
class">Calculate Average</button>

  </form>
  <script src="script.js"></script>
</body>
</html>
```

Style.CSS

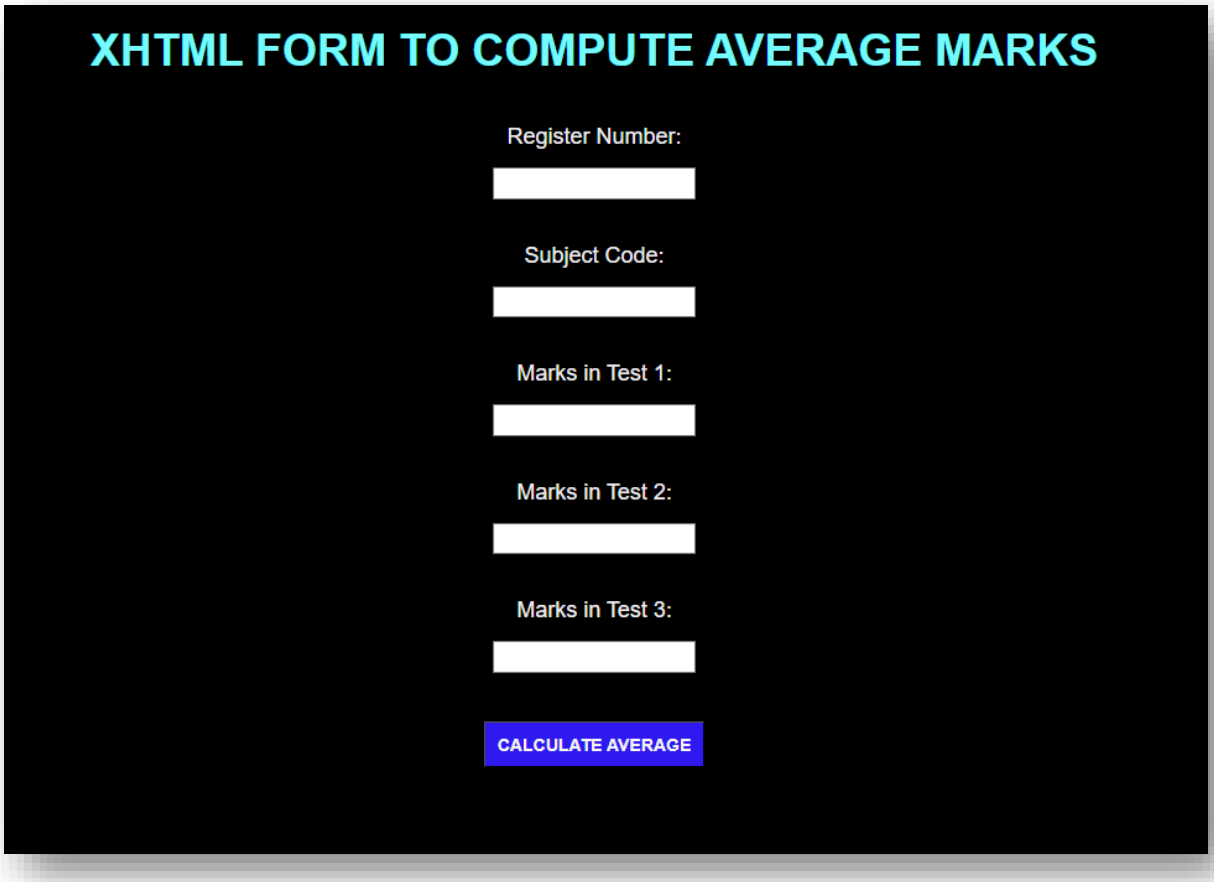
```
body{
    font-family: sans-serif;
    background-color: #000000;
    text-align: center;
    font-size: 1.2rem;
}
label{
    display:inline-table;
    margin: 15px auto;
    width: 55%;
    color: rgb(240, 239, 243);
```

```
}
input{
    padding: 5px;
}
button{
    margin-top: 20px;
    padding: 10px;
    font-size: 15px;
}
h1{
    text-decoration: double;
    text-transform: uppercase;
    text-decoration: solid;
    font-weight: bold;
    color: aqua;

}
.my-button-class{
    color: rgb(245, 245, 245);

    font-weight: bold;
    text-transform: uppercase;
    background-color: rgb(50, 24, 250);
    position: relative;

}
.container
{

        display: flex;
        flex-direction:column;
        align-items: center;

}
```

Script.js

```
function calculateAverage() {
    var marks1 = parseFloat(document.getElementById("marks1").value);
    var marks2 = parseFloat(document.getElementById("marks2").value);
    var marks3 = parseFloat(document.getElementById("marks3").value);
    if ( isNaN(marks1) || isNaN(marks2) || isNaN(marks3)) {
      return alert("Please fill in all fields with valid values.");
    }
    let min = Math.min(marks1, marks2, marks3)
    let total = marks1 + marks2 + marks3;
    var average = (total - min) / 2;
    alert("Average Marks: " + average);
  }
```

Output


XHTML FORM TO COMPUTE AVERAGE MARKS
Register Number:
Subject Code:
Marks in Test 1:
Marks in Test 2:
Marks in Test 3:
CALCULATE AVERAGE

9. Develop an XHTML document and Java script to validate the following fields in a registration page:

i. User ID (must be of length 5 to 12)

ii. Name (only alphabets and the length should not be less than 15 characters)

iii. Password (must be eight characters including one uppercase letter, one special character and alphanumeric characters)

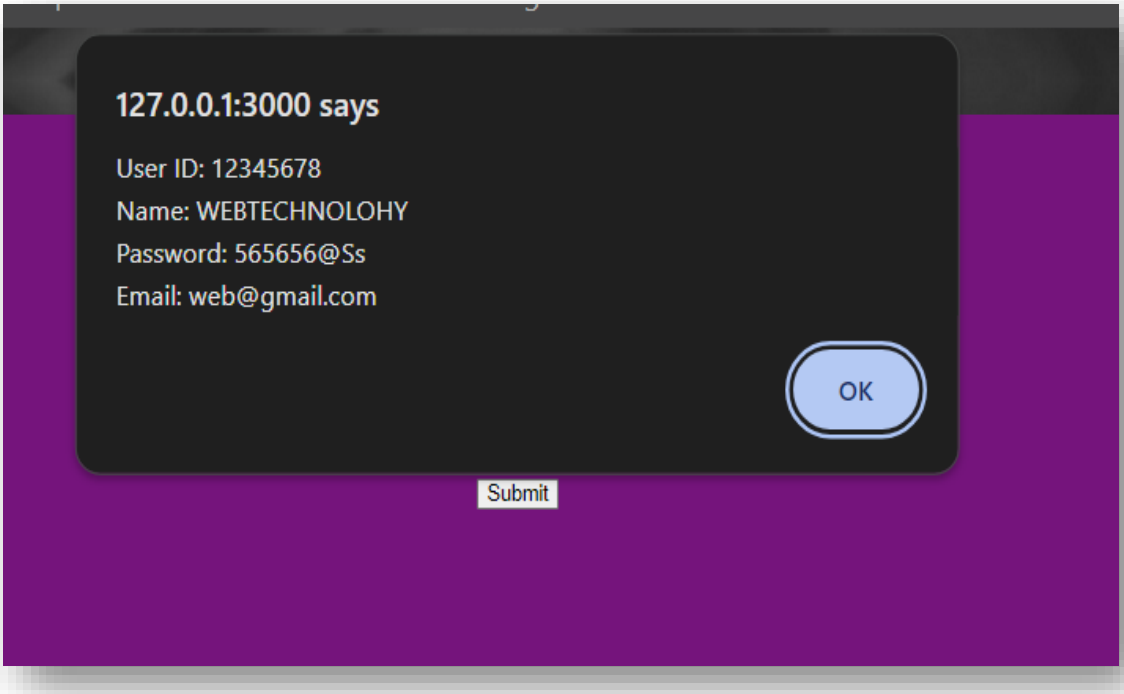
iv. E-mail (should not contain invalid addresses)

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html>

<head>
    <title>Registration Page</title>
    <style>
        body {
            background-color: purple;
            color: white;
        }

        h1 {
            text-align: center;
        }

        form {
            display: block;
        }
    </style>
    <script>
        function validateForm() {
            // Get form values
            var userId = document.getElementById("userId").value;
            var name = document.getElementById("name").value;
            var password = document.getElementById("password").value;
            var email = document.getElementById("email").value;
            if (userId.length < 5 || userId.length > 12) {
                alert("User ID must be between 5 and 12 characters long");
                return;
            }

            // Name validation
            if (name.length < 10 || !/^[a-zA-Z ]+$/.test(name)) {
                alert("Name must be at least 10 characters long and contain
only alphabets");
                return;
            }

            // Password validation
            var passwordRegex = /^(?=.*[A-Z])(?=.*\d)(?=.*[!@#$%^&*()])[A-
Za-z\d!@#$%^&*()]{8,}$/;
            if (!passwordRegex.test(password)) {
```

```
                alert("Password must be eight characters including one
uppercase letter, one special character, and alphanumeric characters");
                return;
            }

            // Email validation
            var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
            if (!emailRegex.test(email)) {
                alert("Invalid email address");
                return;
            }

            let details = "User ID: " + userId + "\nName: " + name +
"\nPassword: " + password + "\nEmail: " + email;
            alert(`${details}`)
        }
    </script>
</head>

<body>
    <div>
    <h1>Registration Page</h1>
    <form name="registrationForm" align="center">
        <label for="userId">User ID:</label>
        <input type="text" id="userId" name="userId"><br><br>

        <label for="name">Name:</label>
        <input type="text" id="name" name="name"><br><br>

        <label for="password">Password:</label>
        <input type="text" id="password" name="password"><br><br>

        <label for="email">Email:</label>
        <input type="email" id="email" name="email"><br><br>

        <button onclick="validateForm()">Submit</button>
    </form>

    <br>
</div>
</body>

</html>
```

OUTPUT:

Registration Page
User ID:
Name:
Password:
Email:
Submit


127.0.0.1:3000 says
User ID: 12345678
Name: WEBTECHNOLOHY
Password: 565656@Ss
Email: web@gmail.com
OK
Submit

10)

a. Write a PHP script to display today's date in dd-mm-yyyy format.

```
<!DOCTYPE html>

<head>
   <title>Date</title>
   <style>
    h1{
        text-align: center;
    }
    date{
        color: green;
    }
   </style>
</head>
<body>
<h1>Today's date is
<date>
<?php
$today= date("d-m-Y");
echo $today;
?>
</date>
</h1>

</body>
</html>
```

OUTPUT:

Today's date is 10-07-2024

b. Write a PHP script to check whether the number is prime or not when user input a valid number from client side.

```
<!DOCTYPE html>
<html>
<head>
  <title>Prime Number Checker</title>
</head>
<body>
  <h1>Prime Number Checker</h1>
  <form method="POST">
    <label>Number</label>
    <input name="num" required/>
    <button type="submit">Check!</button>
  </form>
    <p>
  <?php
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $num = $_POST["num"];
    if ($num == 1 || $num == 0) {
      echo "The number $num is neither prime nor not prime";
      return;
    }
    $flag = 0;
    for ($i = 2; $i <= sqrt($num); $i++) {
    if ($num % $i == 0) {
        $flag = 1;
        break;
    }
    }
    if ($flag == 1)
    echo "The number $num is not a prime number";
    else
    echo "The number $num is a prime number";
  }
  ?>
    </p>
</body>
</html>
```

OUTPUT:

Prime Number Checker

Number Check!

The number 4 is not a prime number

11. Create HTML page that contain textbox, submit/reset button. Write PHP script to display this information and also store into a text file.

STEPS FOR THE EXECUTION

1.Create into.txt and index.php file code accordingly. in Same directory.

2. change the file.txt mode.

> chmod 777 info.txt

3. Go to browser and execute the filename.php.

Prog11.php

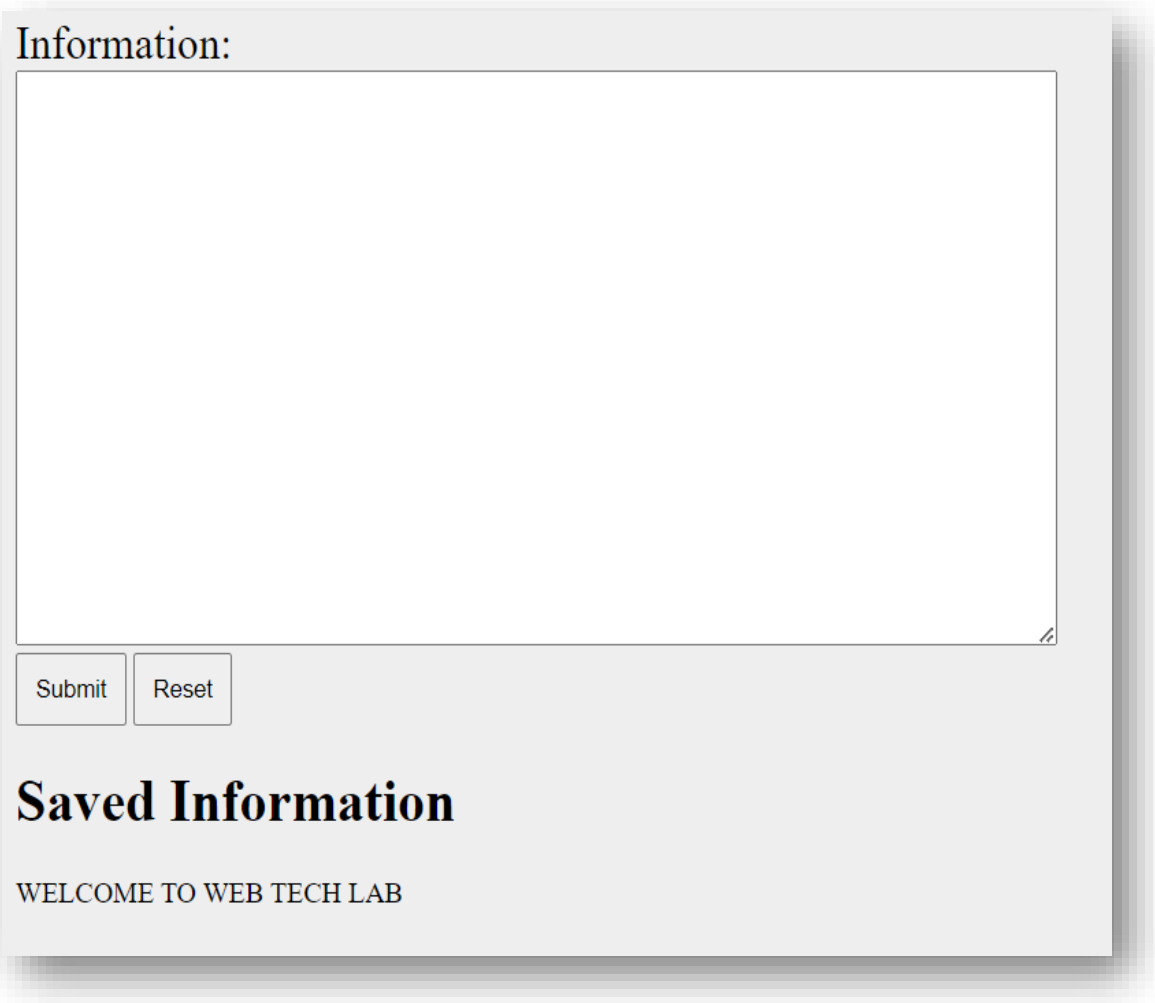
```
<!DOCTYPE html>
<html>
<head>
    <title>Thoughts</title>
    <style>
        body {
            background: #eee;
        }

        label {
            display: block;
            font-size: 25px;
        }

        button {
            padding: 10px;
        }
    </style>
</head>
<body>
    <?php
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        $info = $_POST["info"];
        $info_file = fopen("info.txt", "w");
        fwrite($info_file, $info);
        fclose($info_file);
    }
    ?>
    <form method="POST">
        <label>Information:</label>
        <textarea rows="20" cols="80" name="info">
    </textarea>
        <div>
            <button type="submit">Submit</button>
            <button type="reset">Reset</button>
        </div>
        <div class="saved">
            <h1>Saved Information</h1>
            <?php
            $file = fopen('info.txt', 'r');
            if ($file) {
                while (($line = fgets($file)) !== false) {
```

```
                    echo "<p>$line</p>";
                }
                fclose($file);
            }
            ?>
        </div>
    </form>
</body>
```

Info.txt

WELCOME TO WEB TECH LAB

OUTPUT:



12. Write a PHP script for login authentication. Design an HTML form which takes Username and Password from user and validate against stored Username and Password in a file.

STEPS FOR THE EXECUTION

1.Create into.txt and index.php file code accordingly. in Same directory.

2. change the file.txt mode.

>chmod 777 info.txt

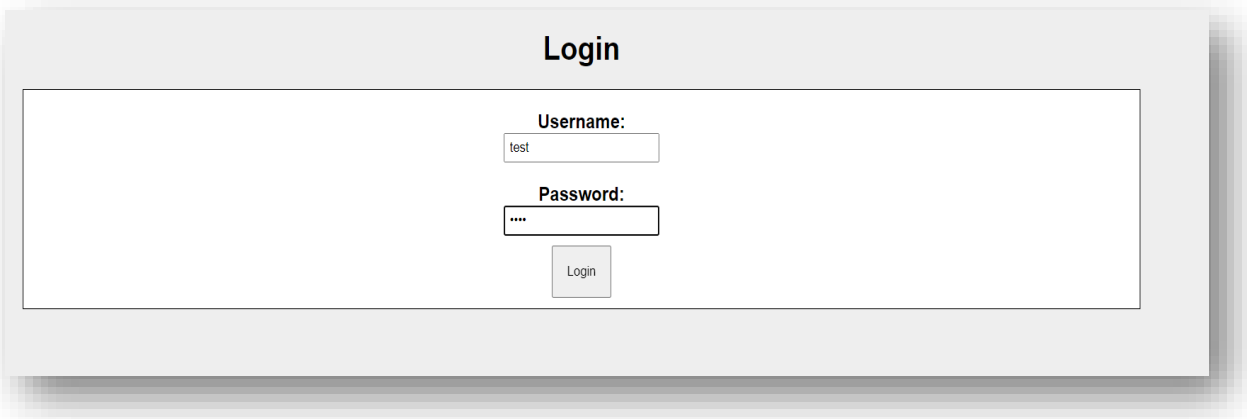
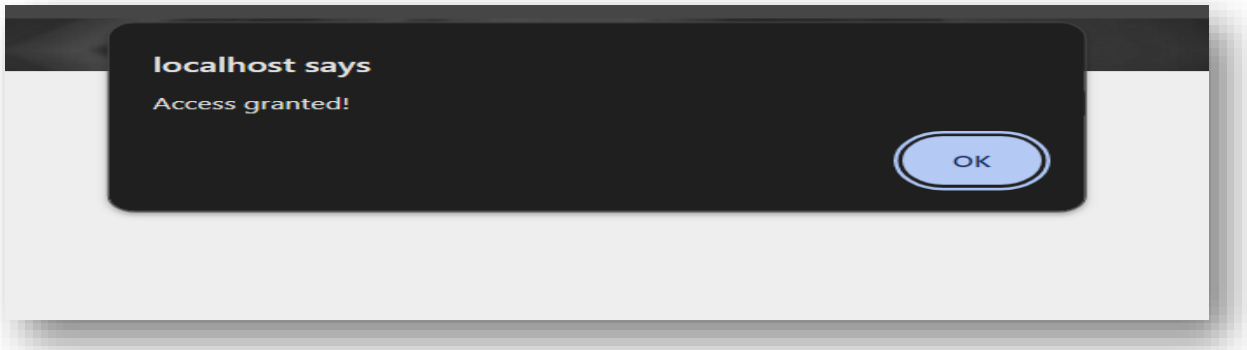
3. Go to browser and execute the filename.php.

Prog12.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Login</title>
    <style>
        body {
            font-family: sans-serif;
            background: #eee;
            text-align: center;
        }
        form {
            background: #fff;
            margin: 0 8rem;
            border: 1px solid;
        }
        label {
            display: block;
            font-weight: bold;
            font-size: 1.2rem;
            margin-top: 20px;
        }
        input {
            display: block;
            margin: 0 auto;
            padding: 5px;
        }
        button {
            margin: 10px auto;
            display: block;
            padding: 1rem;
        }
    </style>
</head>
<body>
    <h1>Login</h1>
    <form method="POST">
        <label>Username:</label>
        <input name="username">
        <label for="password">Password:</label>
```

```
        <input type="password" name="password">
        <button >Login</button>
    </form>
    <script>
        <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST") {
            $uname = $_POST["username"];
            $pass = $_POST["password"];
            $file = fopen("loginDetails.txt", "r");

            $content = fgets($file);
            if ($content == $uname . ":" . $pass) {
                echo "alert('Access granted!')";
            } else {
                echo "alert('Incorrect')";
            }
        }
        ?>
    </script>
</body>
</html>
```

Login.txt

```
test:test
```

OUTPUT: