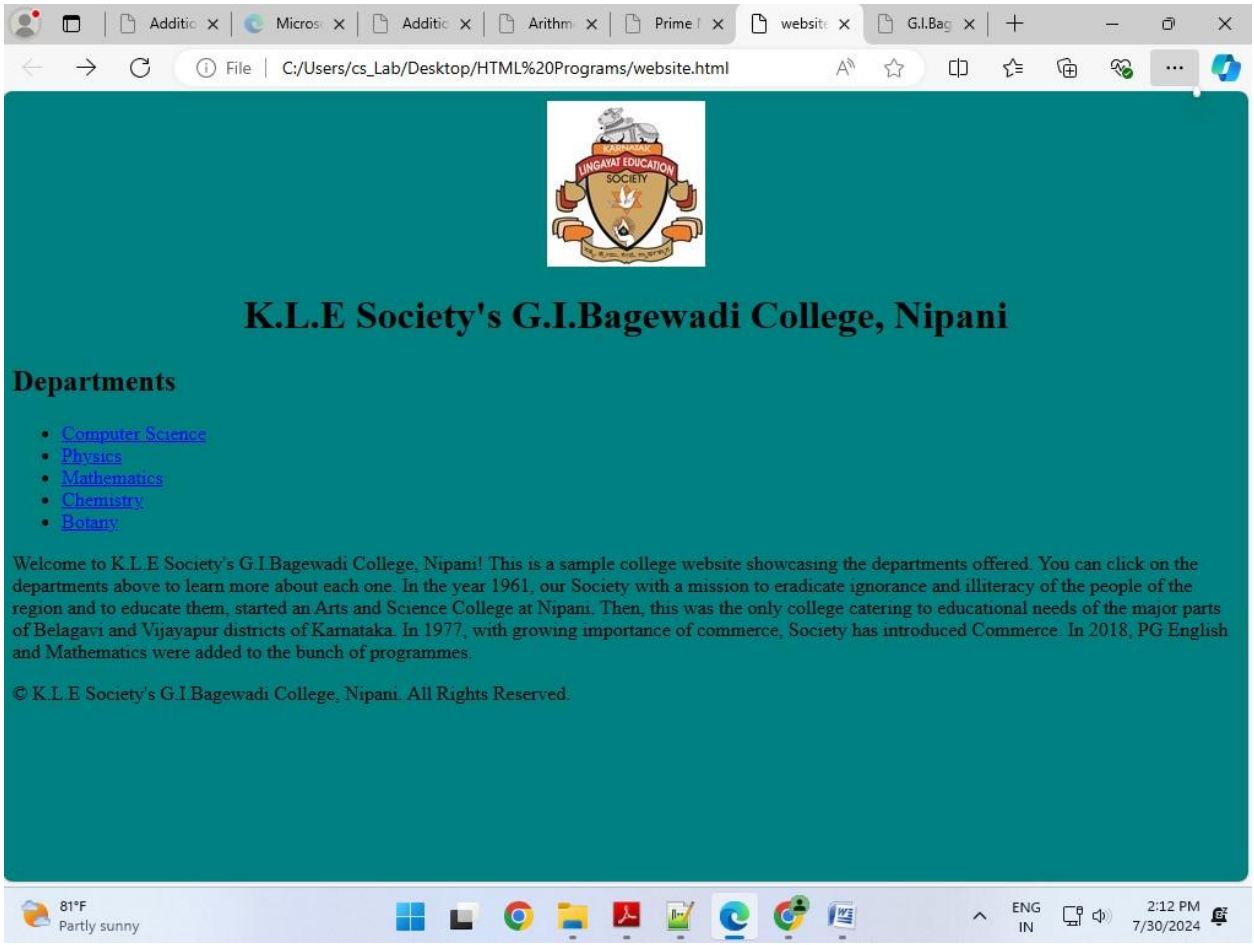
1. DESIGN WEB PAGE FOR YOUR COLLEGE WEBSITE CONTAINING NAME AND LOGO, DEPARTMENTS IST USING HREF, LIST TAGS.

```
<html>
</head>
<body bgcolor="teal">
<header align="center">
<img src="Logo.jpg" alt="College Logo">
<h1>K.L.E Society's G.I.Bagewadi College, Nipani</h1>
</header>

 <nav>
 <h2>Departments</h2>
 <ul>
          <li><a href="computer-science.html"> Computer Science </a></li>
           <li><a href="physics.html"> Physics </a></li>
          <li><a href="mathematics.html"> Mathematics </a></li>
           <li><a href="chemistry.html"> Chemistry </a></li>
           <li><a href="botany.html"> Botany </a></li>
 </ul>
 </nav>

<main>

 <p> Welcome to K.L.E Society's G.I.Bagewadi College, Nipani! This is a sample
college website showcasing the departments offered. You can click on the departments
above to learn more about each one. In the year 1961, our Society with a mission to
eradicate ignorance and illiteracy of the people of the region and to educate them,
started an Arts and Science College at Nipani. Then, this was the only college catering
to educational needs of the major parts of Belagavi and Vijayapur districts of Karnataka.
 In 1977, with growing importance of commerce, Society has introduced Commerce. In
2018,
 PG English and Mathematics were added to the bunch of programmes.</p>
 </main>

 <footer>
 <p>&copy; K.L.E Society's G.I.Bagewadi College, Nipani. All Rights Reserved.</p>
 </footer>
</body>
</html>
```

OUTPUT

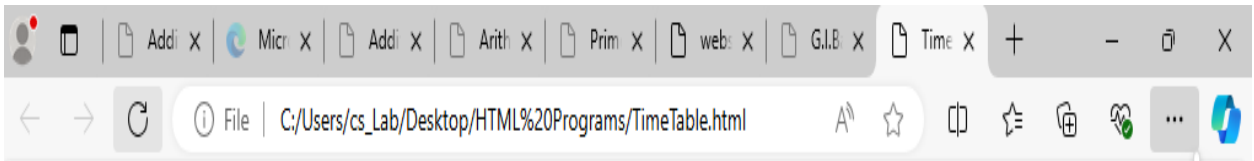

File | C:/Users/cs_Lab/Desktop/HTML%20Programs/website.html
K.L.E Society's G.I.Bagewadi College, Nipani
Departments
Computer Science
Physics
Mathematics
Chemistry
Botany
Welcome to K.L.E Society's G.I.Bagewadi College, Nipani! This is a sample college website showcasing the departments offered. You can click on the departments above to learn more about each one. In the year 1961, our Society with a mission to eradicate ignorance and illiteracy of the people of the region and to educate them, started an Arts and Science College at Nipani. Then, this was the only college catering to educational needs of the major parts of Belagavi and Vijayapur districts of Karnataka. In 1977, with growing importance of commerce, Society has introduced Commerce. In 2018, PG English and Mathematics were added to the bunch of programmes.
© K.L.E Society's G.I.Bagewadi College, Nipani. All Rights Reserved.
81°F
Partly sunny
ENG
IN
2:12 PM
7/30/2024

2. CREATE CLASS TIME TABLE USING TABLE TAG

```
<html>
</head>
<body >
 <h1 align="center"> CLASS TIME TABLE </h1>

 <table border=2 align="center">
 <thead>
 <tr bgcolor="aqua">
 <th>Time</th>
 <th>Monday</th>
 <th>Tuesday</th>
 <th>Wednesday</th>
 <th>Thursday</th>
 <th>Friday</th>
 </tr>
 </thead>

 <tbody>
 <tr>
 <td>8:00 - 9:00 AM</td>
 <td>Math</td>
 <td>Physics</td>
 <td>Chemistry</td>
 <td>Biology</td>
 <td>English</td>
 </tr>

 <tr>
 <td>9:00 - 10:00 AM</td>
 <td>English</td>
 <td>Math</td>
 <td>Computer Science</td>
 <td>Physics</td>
 <td>History</td>
 </tr>

 <tr>
 <td>10:00 - 11:00 AM</td>
 <td>Chemistry</td>
 <td>Biology</td>
 <td>Math</td>
 <td>History</td>
 <td>Physics</td>
```

```
</tr>

<tr>
<td>11:00 - 12:00 PM</td>
<td>Biology</td>
<td>English</td>
<td>Physics</td>
<td>Chemistry</td>
<td>Math</td>
</tr>

<tr>
<td>12:00 - 1:00 PM</td>
<td colspan="5" align="center"><b>Lunch Break</b></td>
</tr>

<tr>
<td>1:00 - 2:00 PM</td>
<td>Computer Science</td>
<td>History</td>
<td>English</td>
<td>Math</td>
<td>Chemistry</td>
</tr>

<tr>
<td>2:00 - 3:00 PM</td>
<td>History</td>
<td>Chemistry</td>
<td>Biology</td>
<td>Computer Science</td>
<td>Math</td>
</tr>

</tbody>

</table>
</body>
</html>
```

OUTPUT



CLASS TIME TABLE

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 - 9:00 AM	Math	Physics	Chemistry	Biology	English
9:00 - 10:00 AM	English	Math	Computer Science	Physics	History
10:00 - 11:00 AM	Chemistry	Biology	Math	History	Physics
11:00 - 12:00 PM	Biology	English	Physics	Chemistry	Math
12:00 - 1:00 PM	**Lunch Break**				
1:00 - 2:00 PM	Computer Science	History	English	Math	Chemistry
2:00 - 3:00 PM	History	Chemistry	Biology	Computer Science	Math

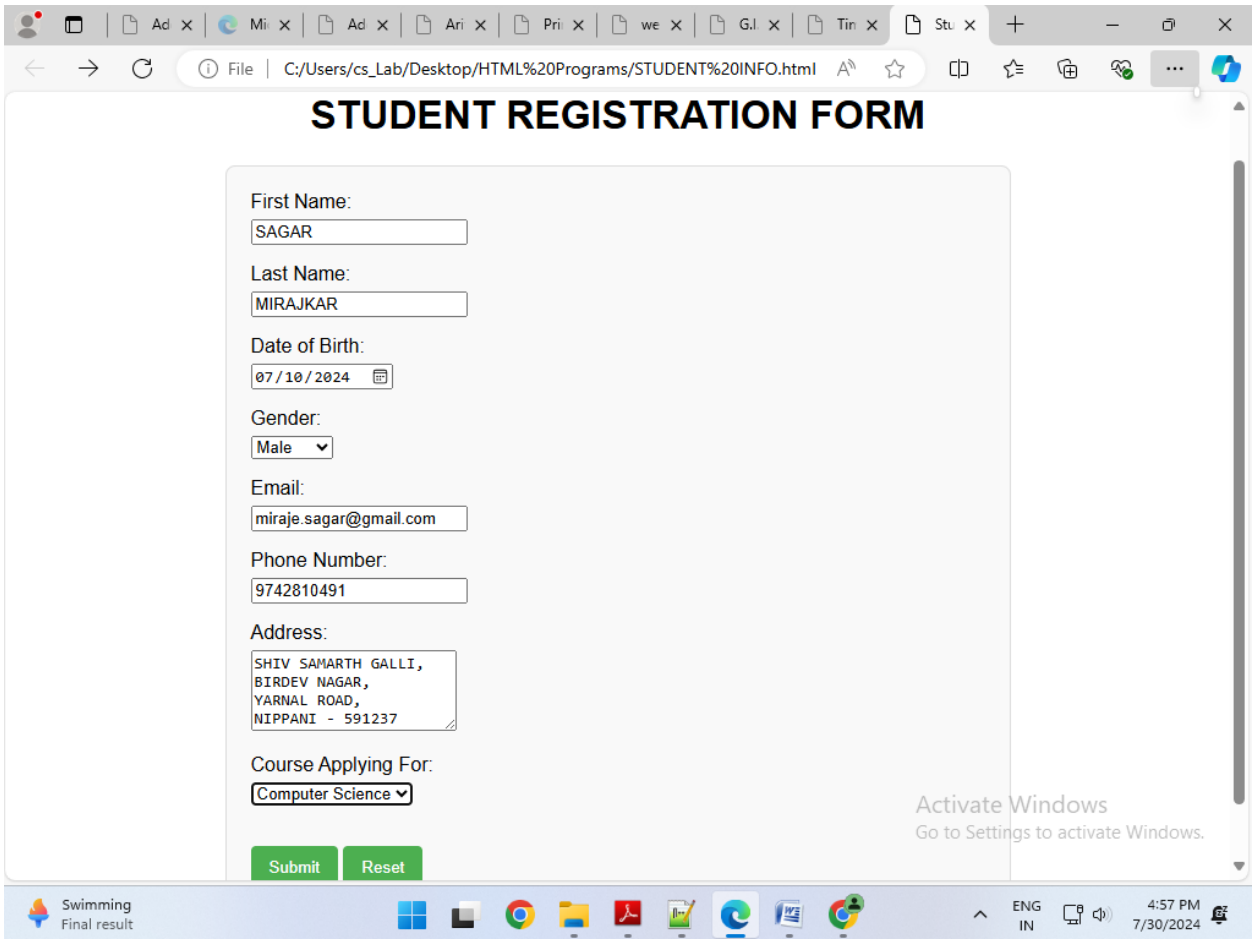
3. WRITE A HTML CODE TO DESIGN STUDENT REGISTRATION FORM FOR YOUR COLLEGE.

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Student Registration Form</title>
 <style>
 body {
 font-family: Arial, sans-serif;
 margin: 0;
 padding: 20px;
 }

h1 {
 text-align: center;
 }

form {
 max-width: 600px;
 margin: 0 auto;
 border: 1px solid #ddd;
 padding: 20px;
 border-radius: 8px;
 background-color: #f9f9f9;
 }

.form-group {
 margin-bottom: 15px;
 }

label {
 display: block;
 margin-bottom: 5px;
 }
 input[type="text"],
 input[type="email"],
 input[type="date"],
input[type="tel"],
select,

textarea {
 width: 100%;
```

```
 padding: 8px;
 box-sizing: border-box;
 }

button {
 background-color: #4CAF50;
 color: white;
 padding: 10px 15px;
 border: none;
 border-radius: 4px;
 cursor: pointer;
 }
 button:hover {
 background-color: #45a049;
 }
 </style>
</head>
<body>
 <h1>STUDENT REGISTRATION FORM </h1>
 <form action="STUDENT_REGISTRATION.HTML" method="post">
 <div class="form-group">
 <label for="first-name">First Name:</label>
 <input type="text" id="first-name" name="first_name" required>
 </div>
 <div class="form-group">
 <label for="last-name">Last Name:</label>
 <input type="text" id="last-name" name="last_name" required>
 </div>
 <div class="form-group">
 <label for="dob">Date of Birth:</label>
 <input type="date" id="dob" name="dob" required>
 </div>
 <div class="form-group">
 <label for="gender">Gender:</label>
 <select id="gender" name="gender" required>
 <option value="">Select</option>
 <option value="male">Male</option>
 <option value="female">Female</option>
 <option value="other">Other</option>
 </select>
 </div>

 <div class="form-group">
 <label for="email">Email:</label>
 <input type="email" id="email" name="email" required>
 </div>
```

```
 <div class="form-group">
 <label for="phone">Phone Number:</label>
 <input type="tel" id="phone" name="phone" required>
 </div>
 <div class="form-group">
 <label for="address">Address:</label>
 <textarea id="address" name="address" rows="4" required></textarea>
 </div>
 <div class="form-group">
 <label for="course">Course Applying For:</label>
 <select id="course" name="course" required>
 <option value="">Select</option>
 <option value="computer-science">Computer Science</option>
 <option value="engineering">Engineering</option>
 <option value="business">Business</option>
 <option value="arts">Arts</option>
 <option value="science">Science</option>
 </select>
 </div>
<br>

<button type="submit">Submit</button>
<button type="reset">Reset</button>
 </form>
</body>
</html>
```

OUTPUT

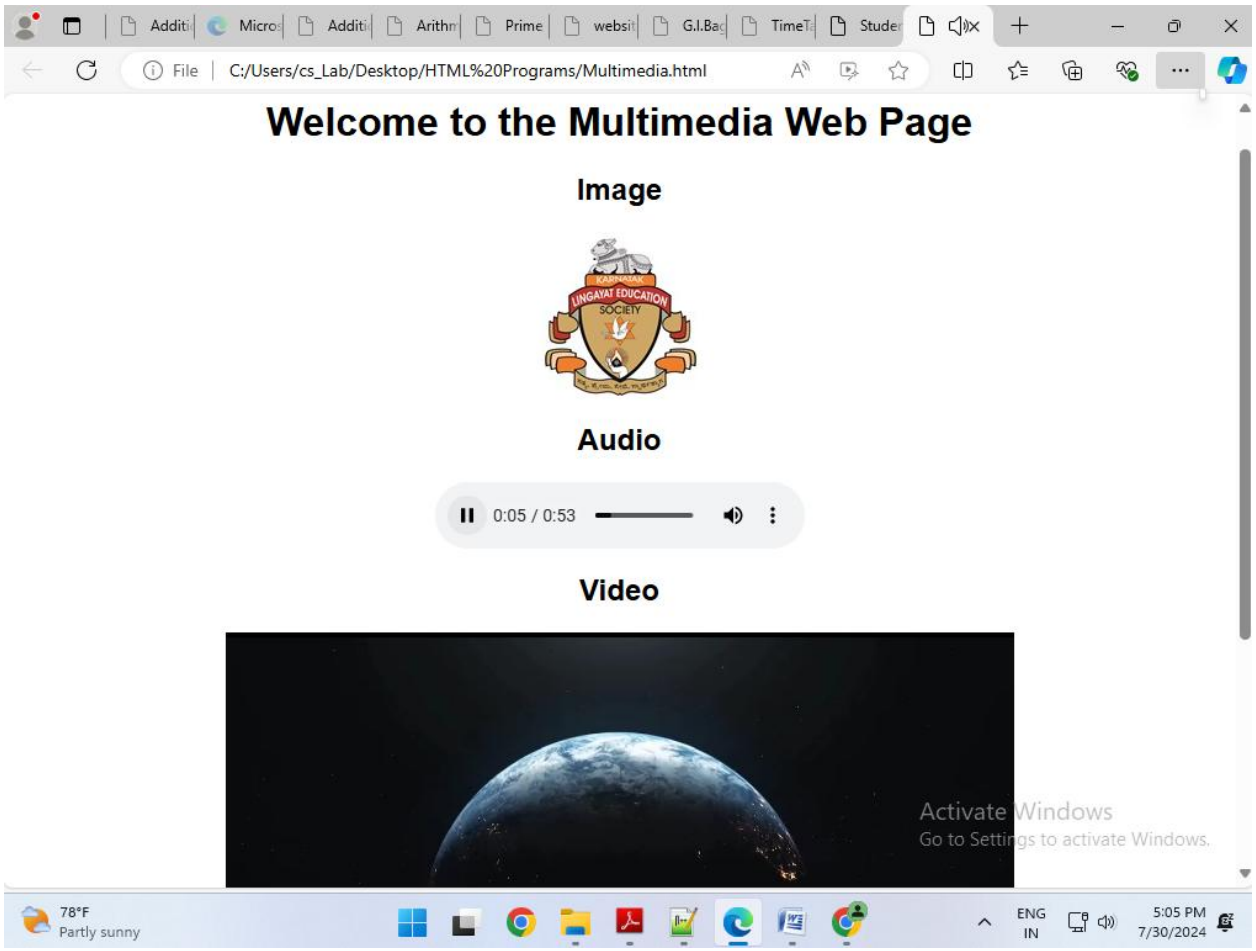

File | C:/Users/cs_Lab/Desktop/HTML%20Programs/STUDENT%20INFO.html
STUDENT REGISTRATION FORM
First Name:
SAGAR
Last Name:
MIRAJKAR
Date of Birth:
07/10/2024
Gender:
Male
Email:
miraje.sagar@gmail.com
Phone Number:
9742810491
Address:
SHIV SAMARTH GALLI,
BIRDEV NAGAR,
YARNAL ROAD,
NIPPANI - 591237
Course Applying For:
Computer Science
Submit
Reset
Activate Windows
Go to Settings to activate Windows.
Swimming
Final result
ENG
IN
4:57 PM
7/30/2024

4. DESIGN A WEB PAGE WHICH INCLUDES MULTI-MEDIA DATA(IMAGE, AUDIO, VIDEO GIF's etc)

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Multimedia Web Page</title>
 <style>
 body {
 font-family: Arial, sans-serif;
 margin: 0;
 padding: 20px;
 }
 h1, h2 {
 text-align: center;
 }
 .container {
 max-width: 800px;
 margin: 0 auto;
 }
 img, video, audio {
 display: block;
 margin: 20px auto;
 max-width: 100%;
 }
 </style>
</head>
<body>
 <div class="container">
 <h1>Welcome to the Multimedia Web Page</h1>

 <h2>Image</h2>
 <img src="logo.jpg" alt="Artificial Intelligence">

 <h2>Audio</h2>
 <audio controls>
 <source src="AudioTest.mp3" type="audio/mpeg">
 Your browser does not support the audio element.
 </audio>

 <h2>Video</h2>
 <video controls>
 <source src="VideoTest.mp4" type="video/mp4" height=150 width=150>
```

```
Your browser does not support the video tag.

</video>

<h2>GIF</h2>
<img src="animation.gif" alt="A funny animation">

</div>
</body>
</html>
```

OUTPUT



5. CREATE A WEB PAGE USING FRAME.

```
<!DOCTYPE html>
<html>
<head>
<title>Frame tag</title>
</head>
<frameset rows="25%,50%,25%">
<frame src="frame1.html" >
<frame src="frame2.html">
<frame src="frame3.html">
</frameset>
</html>
```

frame1.html

```
<!DOCTYPE html>
<html>
<head>
<style>
div
{
background-color: #7fffd4;
height: 500px;
}
</style>
</head>
<body>
<div>
<font color="red" size=8>
<h2>This is first frame</h2>
<font>
</div>
</body>
</html>
```

frame2.html

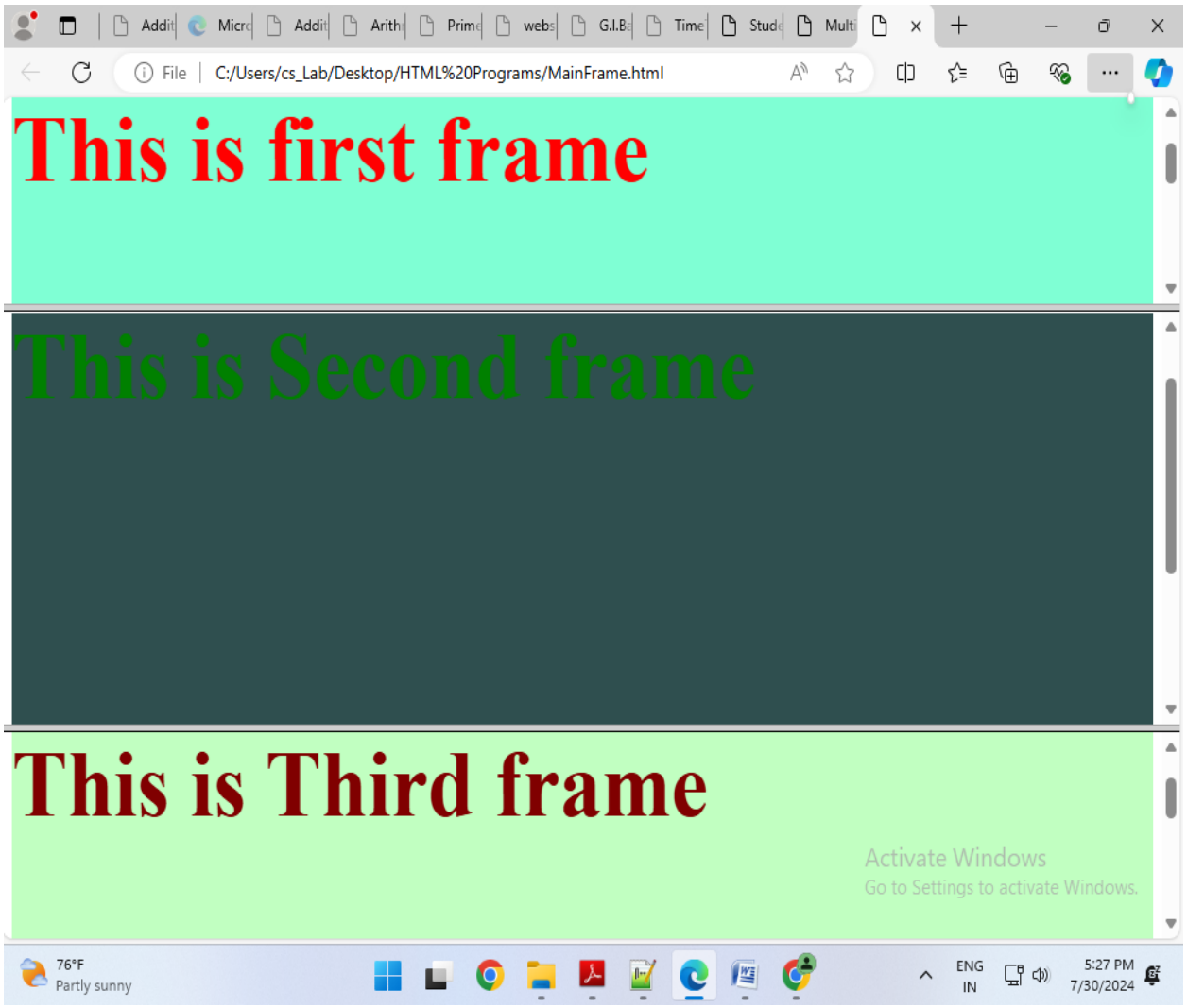
```
<!DOCTYPE html>
<html>
<head>
<style>
div
{
background-color: #2f4f4f;
height: 500px;
}
```

```
</style>
</head>
<body>
<div>
<font color="green" size=8>
<h2>This is Second frame</h2>
<font>
</div>
</body>
</html>
```

frame3.html

```
<!DOCTYPE html>
<html>
<head>
<style>
div{
background-color: #c1ffc1;
height: 500px;
}
</style>
</head>
<body>
<div>
<font color="maroon" size=8>
<h2>This is Third frame</h2>
<font>
</div>
</body>
</html>
```

OUTPUT


File
C:/Users/cs_Lab/Desktop/HTML%20Programs/MainFrame.html
This is first frame
This is Second frame
This is Third frame
Activate Windows
Go to Settings to activate Windows.
76°F
Partly sunny
ENG
IN
5:27 PM
7/30/2024

6. WRITE CODE IN HTML 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 COLOR.

frame.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Frameset Example</title>
</head>
<frameset rows="50%,50%">
<frameset cols="50%,50%">
<frame src="frame1.html" name="frame1">
<frame src="frame2.html" name="frame2">
</frameset>
<frameset cols="50%,50%">
<frame src="frame3.html" name="frame3">
<frame src="frame4.html" name="frame4">
</frameset>
</frameset>
<noframes>
<body>
<p>Your browser does not support frames.</p>
</body>
</noframes>
</html>
```

frame1.html

```
<!DOCTYPE html>
<html>
<head>
<style>
div
{
background-color: #7fffd4;
height: 500px;
}
</style>
</head>
<body>
<div>
<font color="red" size=8>
```

```
<h2>This is first frame</h2>
<font>
</div>
</body>
</html>
```

frame2.html

```
<!DOCTYPE html>
<html>
<head>
<style>
div
{
background-color: #2f4f4f;
height: 500px;
}
</style>
</head>
<body>
<div>
<font color="green" size=8>
<h2>This is Second frame</h2>
<font>
</div>
</body>
</html>
```

frame3.html

```
<!DOCTYPE html>
<html>
<head>
<style>
div{
background-color: #c1ffc1;
height: 500px;
}
</style>
</head>
<body>
<div>
<font color="maroon" size=8>
<h2>This is Third frame</h2>
<font>
</div>
</body>
</html>
```

frame4.html

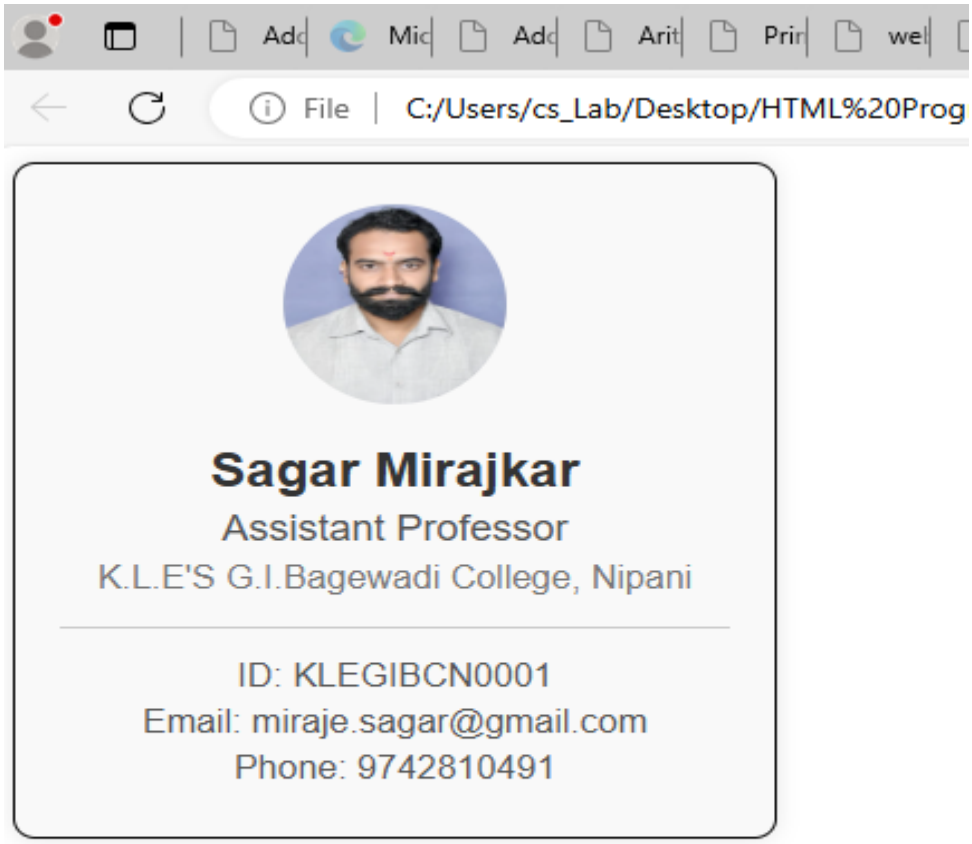
```
<!DOCTYPE html>
<html>
<head>
<style>
div{
background-color: #c1ffc1;
height: 500px;
}
</style>
</head>
<body>
<div>
<font color="olive" size=8>
<h2>This is Third frame</h2>
<font>
</div>
</body>
</html>
```

OUTPUT

7. WRITE CSS CODE TO USE INLINE CSS TO FORMAT YOUR ID CARD.

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>College ID Card</title>
</head>
<body>
<div style="width: 300px; border: 1px solid #000; border-radius: 10px;
padding: 20px; text-align: center; font-family: Arial, sans-serif;
background-color: #f9f9f9; box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);">

<img src="sagar.jpg" alt="Profile Picture" style="width: 100px; height: 100px;
border-radius: 50%; margin-bottom: 15px;">

<h2 style="margin: 0; font-size: 24px; color: #333;">Sagar Mirajkar </h2>

<p style="margin: 5px 0; font-size: 18px; color: #555;">Assistant Professor</p>

<p style="margin: 5px 0; font-size: 16px; color: #777;">K.L.E'S G.I.Bagewadi
College, Nipani</p>

<hr style="margin: 15px 0; border: 0; border-top: 1px solid #ccc;">
<p style="margin: 5px 0; font-size: 16px; color: #555;">ID: KLEGIBCN0001</p>

<p style="margin: 5px 0; font-size: 16px; color: #555;">Email:
miraje.sagar@gmail.com</p>

<p style="margin: 5px 0; font-size: 16px; color: #555;">Phone: 9742810491</p>

</div>
</body>
</html>
```

OUTPUT

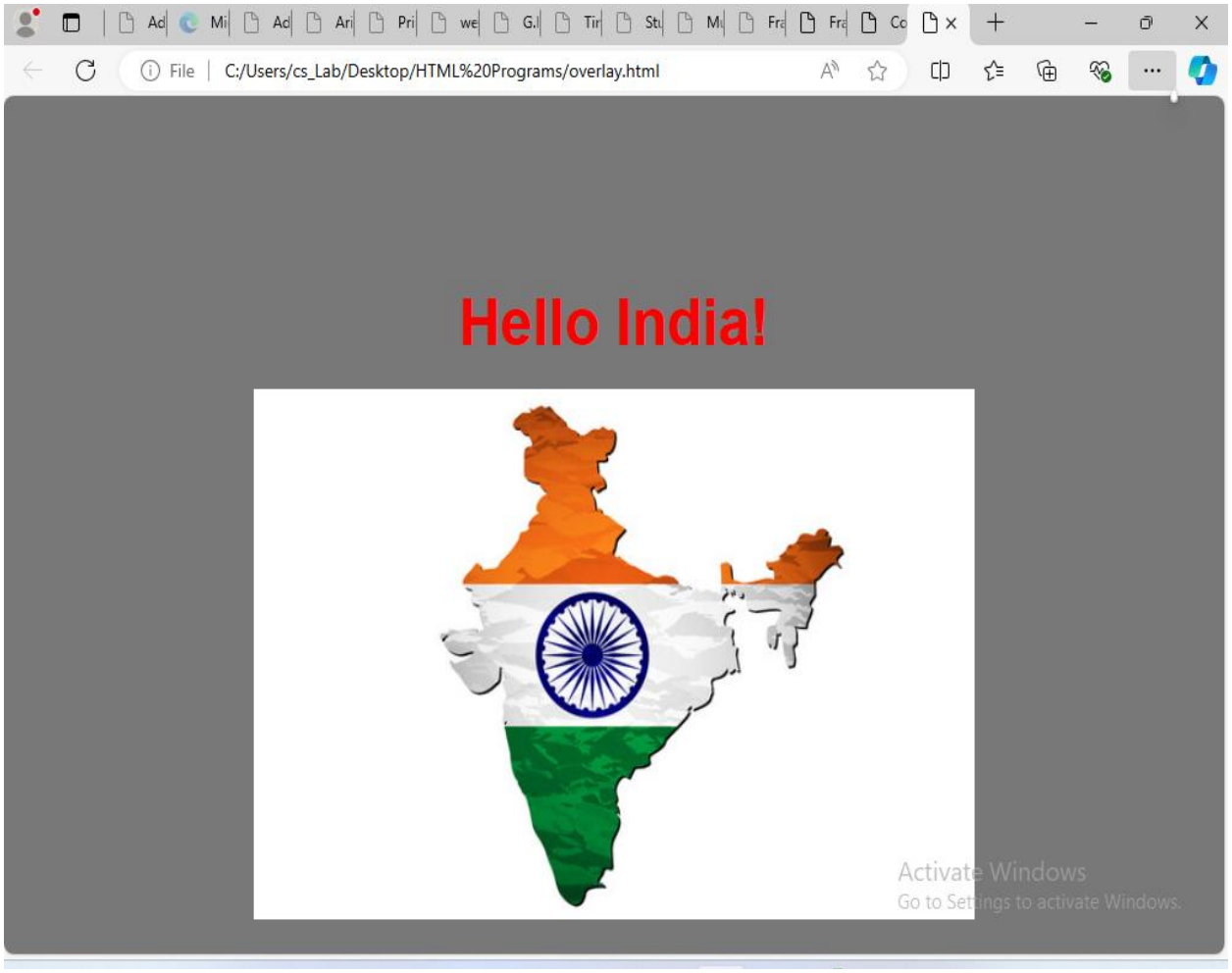

File | C:/Users/cs_Lab/Desktop/HTML%20Prog
Sagar Mirajkar
Assistant Professor
K.L.E'S G.I.Bagewadi College, Nipani
ID: KLEGIBCN0001
Email: miraje.sagar@gmail.com
Phone: 9742810491

8. USING HTML, CSS CREATE DISPLAY A TEXT CALLED — Hello India !|| ON TOP OF AN IMAGE OF INDIA- MAP USING AN OVERLAY.

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Hello India Overlay</title>
<style>
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
background-color: #f0f0f0;
}
.container {
position: relative;
width: 600px;
height: 400px;
}
.container img {
width: 100%;
height: auto;
}
.overlay {
position: absolute;
top: 0;
left: 0;
width: 100%;
height: 100%;
display: flex;
justify-content: center;
align-items: center;
background-color: rgba(0, 0, 0, 0.5);
}
.overlay h1 {
color: white;
font-size: 36px;
margin: 0;
}
</style>
</head>
```

```
<body>
<div class="overlay">

</div>
<div class="container">
<h1 align="center"> <font color="red" size=10> Hello India! </font> </h1>
<img src="India.jpg" alt="India Map">

</div>
</body>
</html>
```

OUTPUT

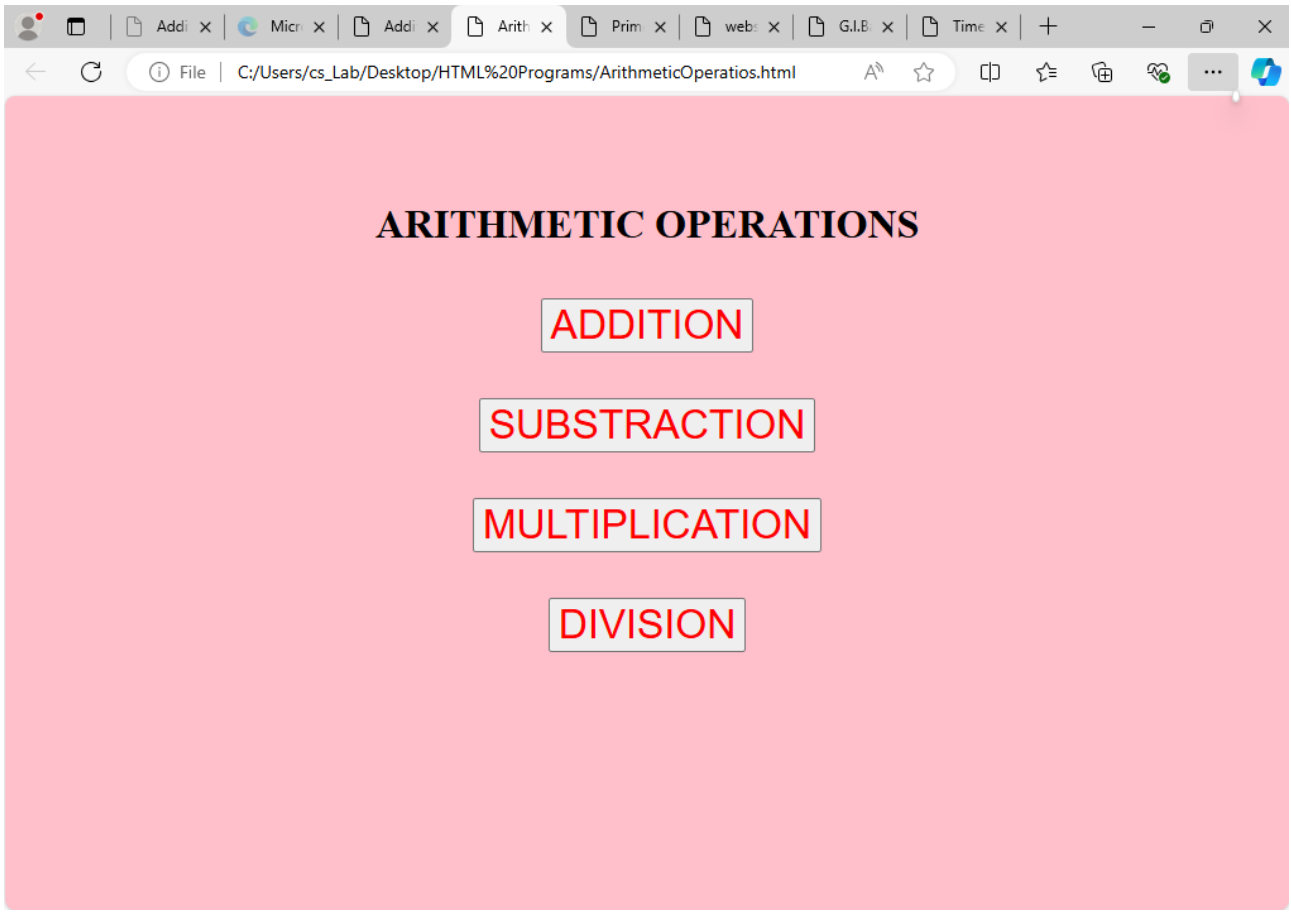


1. JAVASCRIPT PROGRAM TO PERFORM BASIC ARITHMETIC OPERATION

```
<!DOCTYPE html>
<html lang="en">
<br/> <br/> <br/>
<head> <H1> ARITHMETIC OPERATIONS </H1> </head>

<body ALIGN="CENTER" bgcolor="pink">
 <br/>

<button onclick="addition()" > <font size=6 color='red'> ADDITION </font> </button>
 <br/> <br/> <br/>

 <button onclick="substraction()"> <font size=6 color='red'> SUBSTRACTION
</font></button>

 <br/> <br/> <br/>
 <button onclick="multiplication()"> <font size=6 color='red'> MULTIPLICATION
</font></button>

 <br/> <br/> <br/>
 <button onclick="division()"> <font size=6 color='red'> DIVISION </font></button>

 <script>

 function addition()
{
        var  firstNumber,secondNumber,number1,number2,sum;
        firstNumber = window.prompt("Enter first integer", "" );
        secondNumber = window.prompt( "Enter second integer", "" );
        // convert numbers from strings to integers
        number1 = parseInt(firstNumber);
        number2 = parseInt( secondNumber );
        sum = number1 + number2;
        window.alert( "The Addition of two number is " + sum);
}

 function substraction()
{
        var  firstNumber,secondNumber,number1,number2,sub;
        firstNumber = window.prompt("Enter first integer", "" );
        secondNumber = window.prompt( "Enter second integer", "" );
        // convert numbers from strings to integers
        number1 = parseInt(firstNumber);
        number2 = parseInt( secondNumber );
```

```
        sub = number1 - number2;
        window.alert( "The Substraction of two number is " + sub);
}

function multiplication()
{
        var  firstNumber,secondNumber,number1,number2,mul;
        firstNumber = window.prompt("Enter first integer", "" );
        secondNumber = window.prompt( "Enter second integer", "" );
        // convert numbers from strings to integers
        number1 = parseInt(firstNumber);
        number2 = parseInt( secondNumber );
        mul = number1 * number2;
        window.alert( "The Multiplication of two number is " + mul);
}

function division()
{
        var  firstNumber,secondNumber,number1,number2,div;
        firstNumber = window.prompt("Enter first integer", "" );
        secondNumber = window.prompt( "Enter second integer", "" );
        // convert numbers from strings to integers
        number1 = parseInt(firstNumber);
        number2 = parseInt( secondNumber );
        div = number1 / number2;
        window.alert( "The Division of two number is " + div);
}

</script>
</body>
</html>
```

OUTPUT

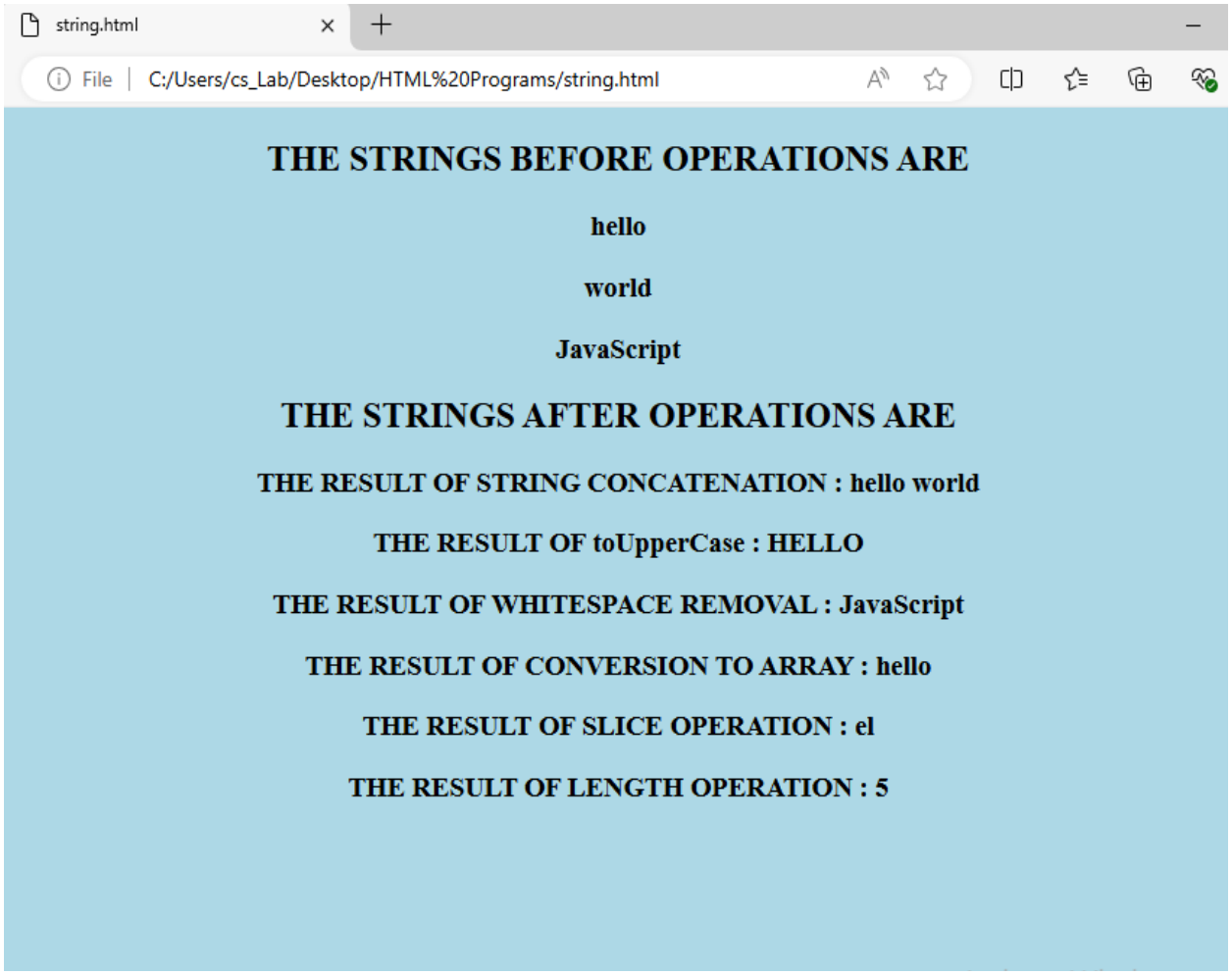

File | C:/Users/cs_Lab/Desktop/HTML%20Programs/ArithmeticOperatios.html
ARITHMETIC OPERATIONS
ADDITION
SUBSTRACTION
MULTIPLICATION
DIVISION

2. JAVASCRIPT PROGRAM TO IMPLEMENT ALL STRING OPERATIONS.

```
<!DOCTYPE html>
<html>
<body bgcolor="lightblue" align="center">
<h1 id="demo"></h1>
<script language="javascript" TYPE="text/javascript">

let text1 = "hello";
let text2 = "world";
let text3 = "     JavaScript    ";
document.write("<h2>THE STRINGS BEFORE OPERATIONS ARE </h2>");
document.write("<h3> "+text1+"</h3>");
document.write("<h3> "+text2+"</h3>");
document.write("<h3> "+text3+"</h3>");
// concatenate two strings

document.write("<h2>THE STRINGS AFTER OPERATIONS ARE </h2>");
let result1 = text1.concat(' ', text2);
document.write("<h3> THE RESULT OF STRING CONCATENATION : "+result1+"</h3>");
// hello world

// convert the text to uppercase
let result2 = text1.toUpperCase();
document.write("<h3> THE RESULT OF toUpperCase : "+result2+"</h3>")  // HELLO

// remove whitespace from the string
let result3 = text3.trim();
document.write("<h3> THE RESULT OF WHITESPACE REMOVAL : "+result3+"</h3>")  //
JavaScript

// convert the string to an array
let result4 = text1.split();
document.write("<h3> THE RESULT OF CONVERSION TO ARRAY : "+result4+"</h3>")  // [
'hello' ]

// slice the string
let result5= text1.slice(1, 3);
document.write("<h3> THE RESULT OF SLICE OPERATION : "+result5+"</h3>")  // el

// slice the string
let result6= text1.length;
document.write("<h3> THE RESULT OF LENGTH OPERATION : "+result6+"</h3>");  // el
</script>
</body>
```

```
</html>
```

OUTPUT

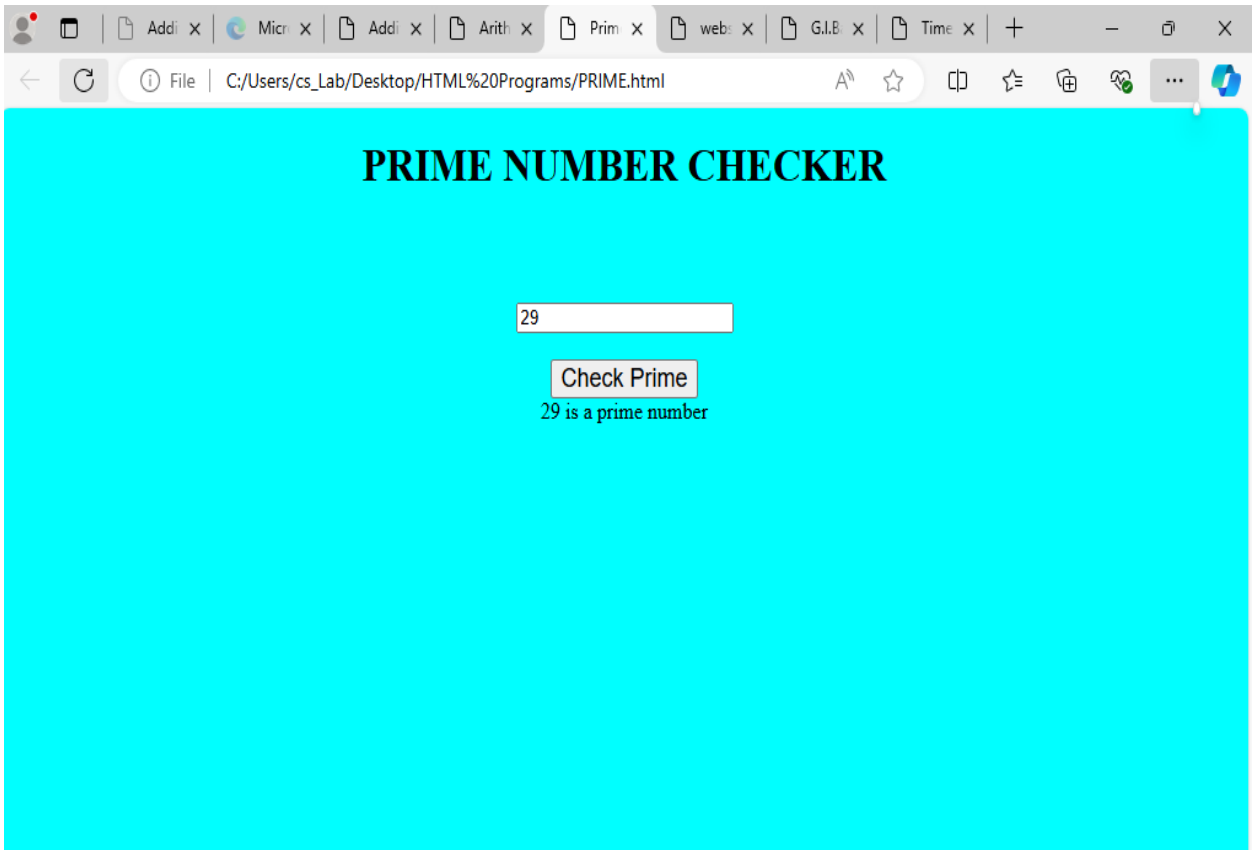

string.html
File | C:/Users/cs_Lab/Desktop/HTML%20Programs/string.html
THE STRINGS BEFORE OPERATIONS ARE
hello
world
JavaScript
THE STRINGS AFTER OPERATIONS ARE
THE RESULT OF STRING CONCATENATION : hello world
THE RESULT OF toUpperCase : HELLO
THE RESULT OF WHITESPACE REMOVAL : JavaScript
THE RESULT OF CONVERSION TO ARRAY : hello
THE RESULT OF SLICE OPERATION : el
THE RESULT OF LENGTH OPERATION : 5

3. JAVASCRIPT PROGRAM TO CHECK PRIME NUMBER

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Prime Number Checker</title>
</head>
<body ALIGN=center bgcolor="aqua">
<H1> PRIME NUMBER CHECKER </H1>
<br/> <br/> <br/>

 <input type="number" id="number" size=8 placeholder="Enter a number" >
 <br/> <br/>
 <button onclick="checkPrime()"> <font size=4> Check Prime </font> </button>
 <div class="result" id="result"></div>

<script>

 function checkPrime()
{
        var num = parseInt(document.getElementById('number').value);
        var result = document.getElementById('result');

        if (isNaN(num))
        {
                result.innerText = 'Please enter a valid number';
                return;
        }
        if (num <= 1)
        {
                result.innerText = num + ' is not a prime number';
                return;
        }
        for (var i = 2; i <= (num/2); i++)
        {
                if (num % i === 0)
                {
                        result.innerText = num + ' is not a prime number';

                        return;
                }
        }
        result.innerText = num + ' is a prime number';
}
```

```
</script>
</body>
</html>
```

OUTPUT

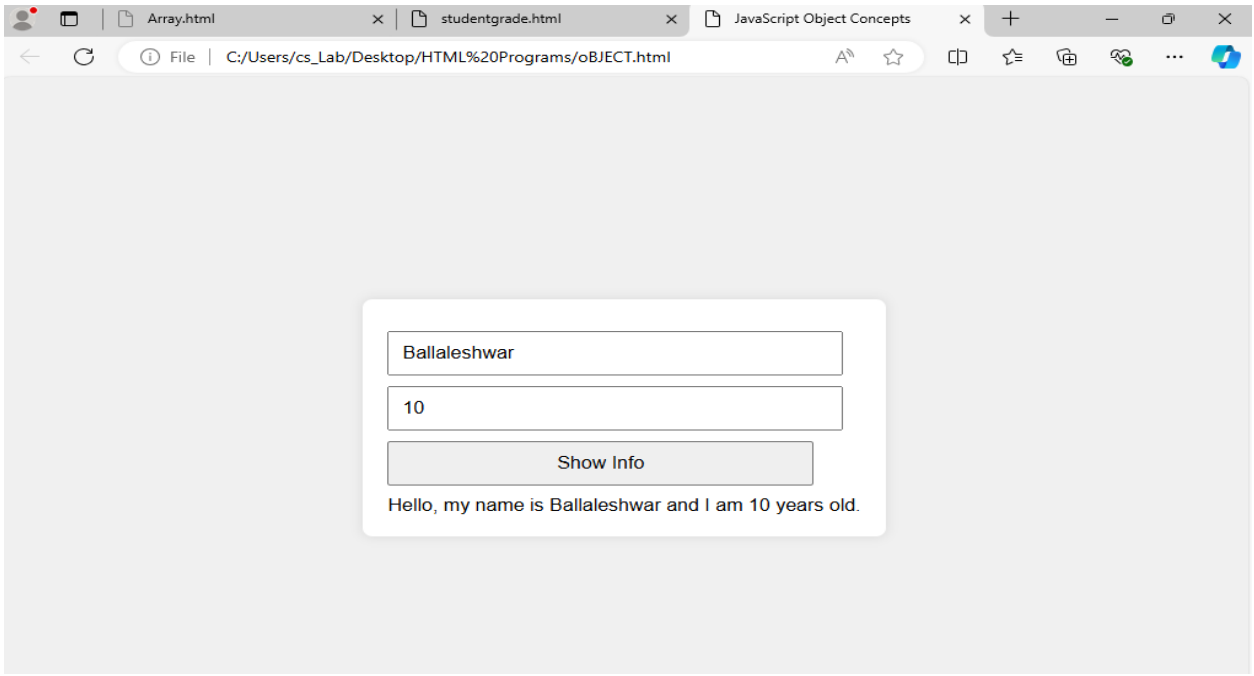


4. JAVASCRIPT PROGRAM TO IMPLEMENT JAVA SCRIPT OBJECT CONCEPT

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>JavaScript Object Concepts</title>
<style>
body {
font-family: Arial, sans-serif;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
margin: 0;
background-color: #f0f0f0;
}
.object-demo {
background-color: #fff;
padding: 20px;
border-radius: 8px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
.object-demo input, .object-demo button {
display: block;
width: 90%;
margin: 10px 0;
padding: 10px;
font-size: 16px;
}
.result {
text-align: center;
font-size: 16px;
margin-top: 10px;
}
</style>
</head>
<body>
<div class="object-demo">
<input type="text" id="name" placeholder="Enter your name">
<input type="number" id="age" placeholder="Enter your age">
<button onclick="showPersonInfo()">Show Info</button>
<div class="result" id="result"></div>
</div>
<script>
```

```
// JavaScript Object Concept Example
function Person(name, age) {
this.name = name;
this.age = age;
}
Person.prototype.greet = function() {
return 'Hello, my name is ' + this.name + ' and I am ' + this.age + ' years old.';
}
function showPersonInfo() {
var name = document.getElementById('name').value;
var age = parseInt(document.getElementById('age').value);
var result = document.getElementById('result');
if (!name || isNaN(age)) {
result.innerText = 'Please enter valid name and age';
return;
}
var person = new Person(name, age);
result.innerText = person.greet();
}
</script>
</body>
</html>
```

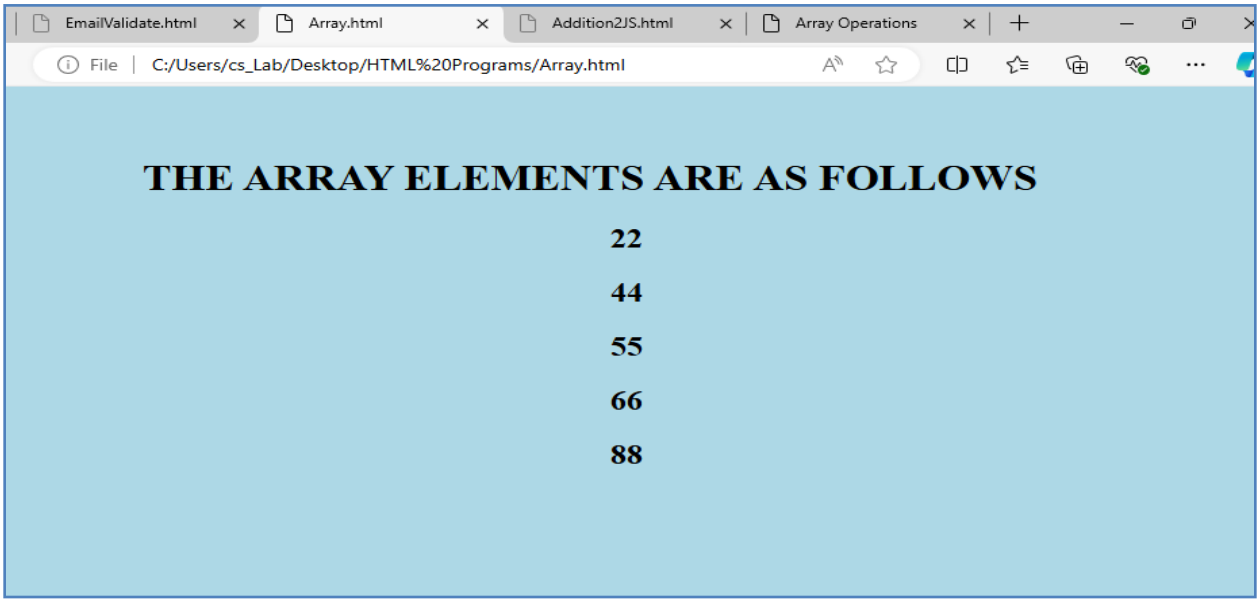
OUTPUT



5. JAVASCRIPT PROGRAM TO CREATE ARRAY AND INSERTING DATA INTO ARRAY

```
<!DOCTYPE html>
<html>
<body bgcolor="lightblue" align="center">
<h1 id="demo"></h1>
<script language="javascript" TYPE="text/javascript">
var s=[];
var ele,n1,i;
        for(i = 0; i < 5; i++)
        {
                ele = window.prompt( "ENTER THE INTEGER ELEMENTS OF ARRAY", "" );
                // convert numbers from strings to integers
                n1 = parseInt(ele);
                s.push(n1);
        }
        document.write("<br/><h1> THE ARRAY ELEMENTS ARE AS FOLLOWS </h1>");
        for (i = 0; i < s.length; i++)
        {
                document.write("<h2>    "+s[i]+"</h2>");
        }
</script>
</body>
</html>
```

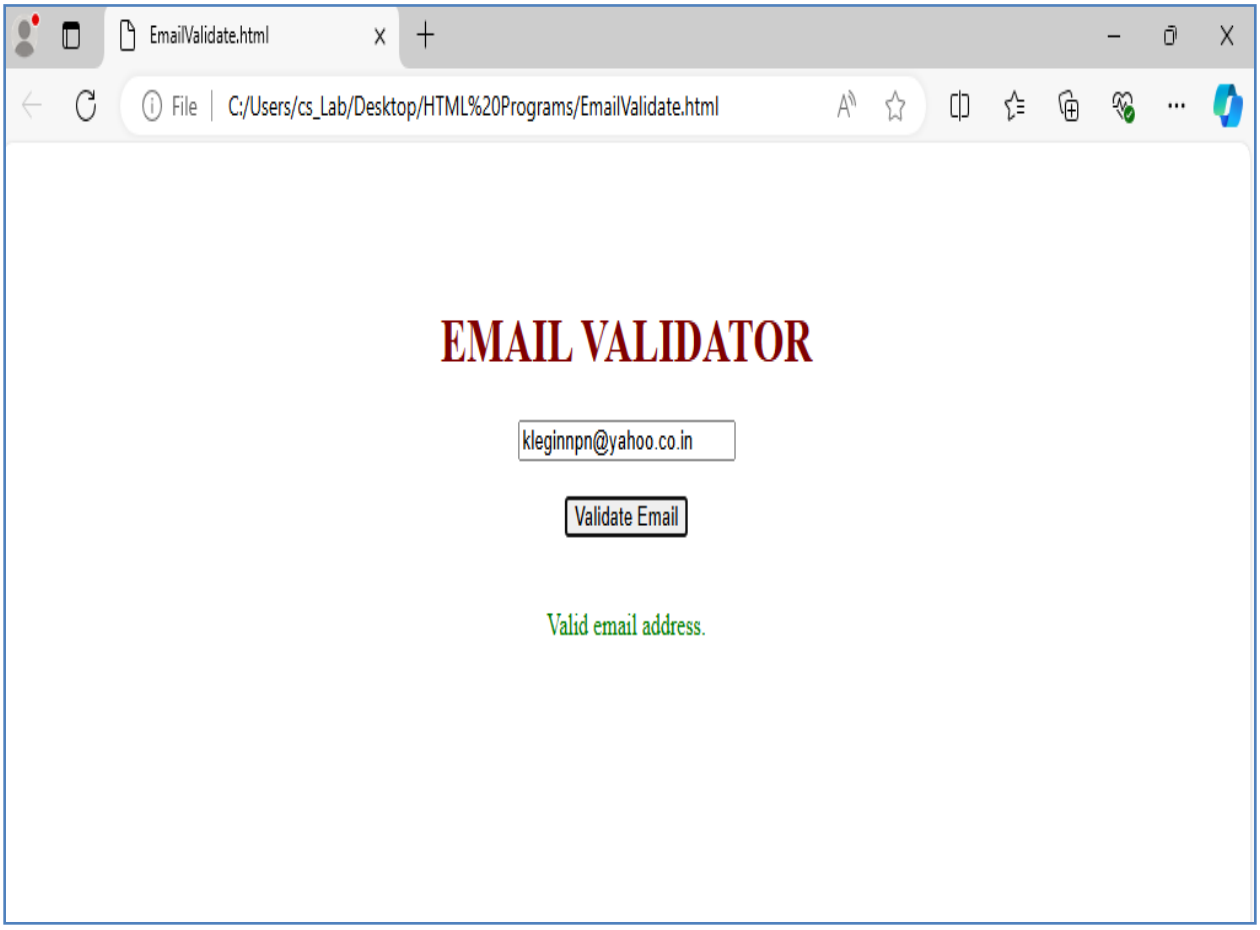
OUTPUT



6. JAVASCRIPT PROGRAM TO VALIDATE AN EMAIL ADDRESS.

```
<html>
<head>
</head>
<body align="center">
<br/> <br/> <br/>
<h1> <font color="maroon"> EMAIL VALIDATOR </font> </h1>
<div class="email-validation">
<input type="text" id="email" placeholder="Enter your email address">
<br/> <br/>
<button onclick="validateEmail()">Validate Email</button>
<br/> <br/>
<div class="result" id="result">
</div>
</div>
<script>

function validateEmail()
{
        var email = document.getElementById('email').value;
        var result = document.getElementById('result');
        var emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
        if (emailPattern.test(email))
                {
                  result.innerText = 'Valid email address.';
                  result.style.color = 'green';
                }
        else
                {
                  result.innerText = 'Invalid email address.';
                  result.style.color = 'red';
                }
}
</script>
</body>
</html>
```

OUTPUT


EmailValidate.html
File
C:/Users/cs_Lab/Desktop/HTML%20Programs/EmailValidate.html
EMAIL VALIDATOR
kleginnpn@yahoo.co.in
Validate Email
Valid email address.

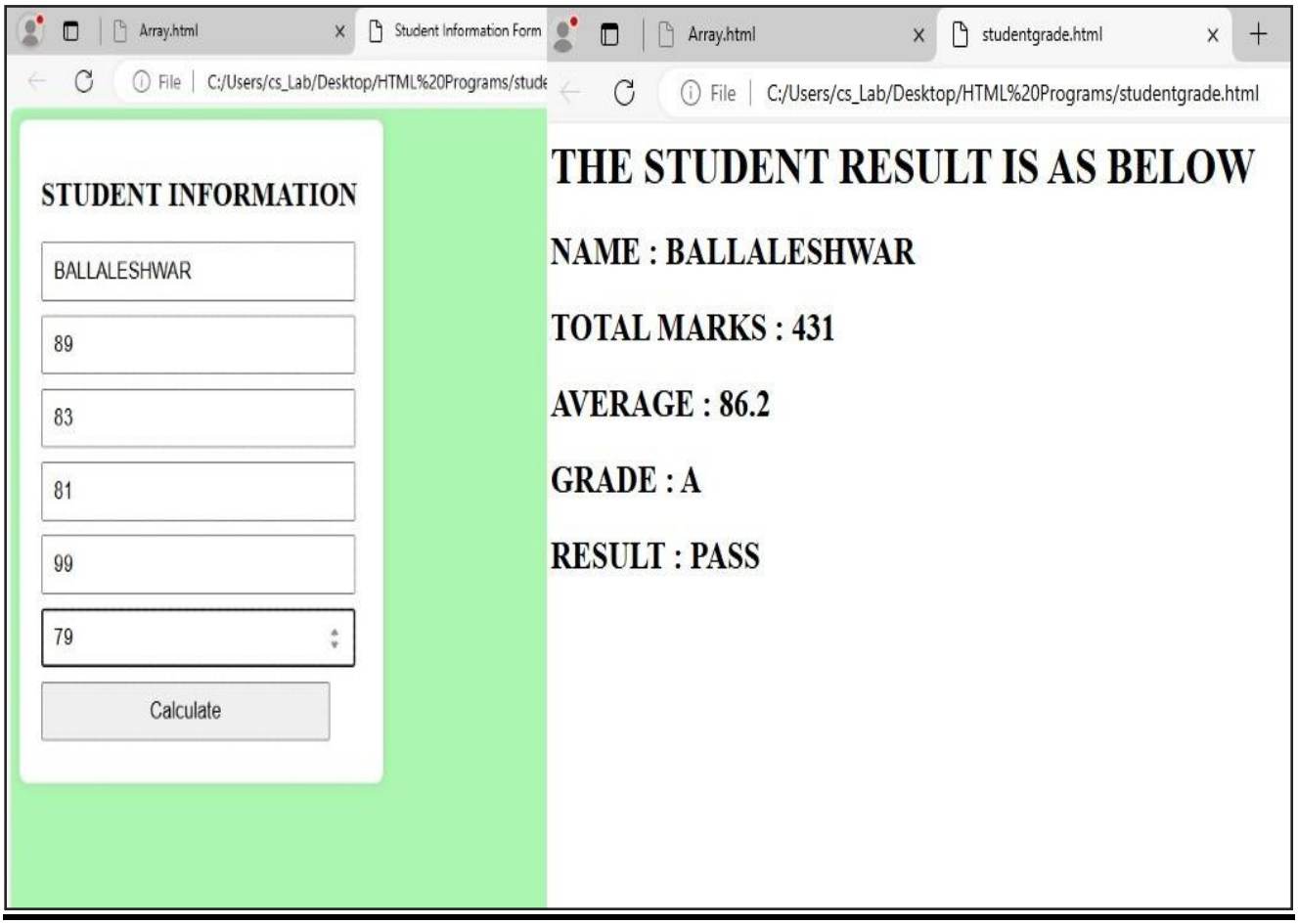
7. CREATE A FORM FOR STUDENT INFORMATION. WRITE JAVASCRIPT CODE TO FIND TOTAL, AVERAGE, RESULT AND GRADE.

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Student Information Form</title>
<style>
.student-form {
background-color: #fff;
padding: 20px;
border-radius: 8px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
width: 300px;
}
.student-form input, .student-form button {
display: block;
width: 90%;
margin: 10px 0;
padding: 10px;
font-size: 16px;
}
</style>
</head>
<body bgcolor="#abf7b1">
<div class="student-form">
<h2>STUDENT INFORMATION</h2>
<input type="text" id="name" placeholder="Enter your name">
<input type="number" id="subject1" placeholder="Enter marks for Subject 1">
<input type="number" id="subject2" placeholder="Enter marks for Subject 2">
<input type="number" id="subject3" placeholder="Enter marks for Subject 3">
<input type="number" id="subject4" placeholder="Enter marks for Subject 4">
<input type="number" id="subject5" placeholder="Enter marks for Subject 5">
<button onclick="calculateResult()">Calculate</button>
</div>
<script>
function calculateResult()
 {
        var name = document.getElementById('name').value;
        var subject1 = parseInt(document.getElementById('subject1').value);
        var subject2 = parseInt(document.getElementById('subject2').value);
        var subject3 = parseInt(document.getElementById('subject3').value);
        var subject4 = parseInt(document.getElementById('subject4').value);
        var subject5 = parseInt(document.getElementById('subject5').value);
```

```
// Check for valid inputs
        if ((subject1>=40) && (subject2>=40) && (subject3>=40) &&
            (subject4>=40) && (subject5>=40))
                {
                        var total = subject1 + subject2 + subject3 + subject4 + subject5;
                        var average = total / 5;
                        var grade = '';
                        var result ="PASS";

                                // Determine grade
                        if (average >= 90)
                                {
                                        grade = 'A+';
                                }
                        else if (average >= 80)
                                {
                                        grade = 'A';
                                }
                        else if (average >= 70)
                                {
                                        grade = 'B';
                                }
                        else if (average >= 60)
                                {
                                        grade = 'C';
                                }
                        else if (average >= 50)
                                {
                                        grade = 'D';
                                }
                        else
                                {
                                        grade = 'F';
                                }
                          document.write("<h1> THE STUDENT RESULT IS AS BELOW </h1> ");
                          document.write("<h2> NAME       :  "+name+"</h2>");
                          document.write("<h2> TOTAL MARKS :  "+total+"</h2>");
                          document.write("<h2> AVERAGE    :  "+average+"</h2>");
                          document.write("<h2> GRADE      :  "+grade+"</h2>");
                          document.write("<h2> RESULT     :  "+result+"</h2>");
                }
            else
                {
                        window.alert("THE STUDENT HAS FAILED IN THE EXAMINATION ");
                        return;
                }
```

```
 }
</script>
</body>
</html>
```

OUTPUT



8. WRITE A PROGRAM FOR IMPLEMENTING XML DOCUMENT FOR EMPLOYEE DETAILS

```
<?xml version="1.0" encoding="UTF-8"?>
<Employees>
<Employee>
<EmployeeID>1</EmployeeID>
<Name>John Doe</Name>
<Department>Human Resources</Department>
<Designation>Manager</Designation>
<Salary>60000</Salary>
</Employee>
<Employee>
<EmployeeID>2</EmployeeID>
<Name>Jane Smith</Name>
<Department>Finance</Department>
<Designation>Analyst</Designation>
<Salary>55000</Salary>
</Employee>
<Employee>
<EmployeeID>3</EmployeeID>
<Name>Michael Brown</Name>
<Department>IT</Department>
<Designation>Developer</Designation>
<Salary>70000</Salary>
</Employee>
<Employee>
<EmployeeID>4</EmployeeID>
<Name>Emily Davis</Name>
<Department>Marketing</Department>
<Designation>Coordinator</Designation>
<Salary>50000</Salary>
</Employee>
<Employee>
<EmployeeID>5</EmployeeID>
<Name>David Wilson</Name>
<Department>Sales</Department>
<Designation>Representative</Designation>
<Salary>45000</Salary>
</Employee>
</Employees>
```

OUTPUT

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼<Employees>
  ▼<Employee>
     <EmployeeID>1</EmployeeID>
     <Name>John Doe</Name>
     <Department>Human Resources</Department>
     <Designation>Manager</Designation>
     <Salary>60000</Salary>
   </Employee>
  ▼<Employee>
     <EmployeeID>2</EmployeeID>
     <Name>Jane Smith</Name>
     <Department>Finance</Department>
     <Designation>Analyst</Designation>
     <Salary>55000</Salary>
   </Employee>
  ▼<Employee>
     <EmployeeID>3</EmployeeID>
     <Name>Michael Brown</Name>
     <Department>IT</Department>
     <Designation>Developer</Designation>
     <Salary>70000</Salary>
   </Employee>
  ▼<Employee>
     <EmployeeID>4</EmployeeID>
     <Name>Emily Davis</Name>
     <Department>Marketing</Department>
     <Designation>Coordinator</Designation>
     <Salary>50000</Salary>
   </Employee>
  ▼<Employee>
     <EmployeeID>5</EmployeeID>
     <Name>David Wilson</Name>
     <Department>Sales</Department>
     <Designation>Representative</Designation>
     <Salary>45000</Salary>
   </Employee>
</Employees>
```