

KODIYERI BALAKRISHNAN MEMORIAL GOVERNMENT COLLEGE THALASSERY



Sixth Semester BCA

6B23BCA: WEB TECHNOLOGY

NAME: YADHUKRISHNA N P

REG No: GT21BCAR22

POST GRADUATE DEPARTMENT OF COMPUTER SCIENCE

2023 - 24

KODIYERI BALAKRISHNAN MEMORIAL GOVERNMENT COLLEGE THALASSERY

Affiliated to KANNUR UNIVERSITY



CERTIFICATE

This is to certify that this is the bonafide record of the original work done by Mr..... Reg.no of Sixth Semester BCA in the 6B23BCA: Web Technology Lab during the year 2023 - 24.

Head of the Department

Faculty in Charge

Submitted for the university Practical Examination held on

Examiner 1 :

Examiner 2 :

INDEX

Serial No.	Programs	Page No.
1.	Webpage Using All Basic Tags	1
2.	Hotel Menu List	5
3.	Image Insertion	9
4.	Hyperlinking	11
5.	Temperature Table	13
6.	College Webpage	17
7.	Mouse Events	21
8.	Form Validation Using JavaScript	23
9.	Email Registration Form	27
10.	JavaScript Arrays	31
11.	Expression Evaluation	33
12.	Current Time	35
13.	Prime Numbers	37
14.	Alert Function	41
15.	Factorial	43
16.	Form Processing Using PHP	45
17.	Form Validation Using PHP	47
18.	MySQL Connectivity	51



PROGRAM 1

WEBPAGE USING ALL BASIC TAGS

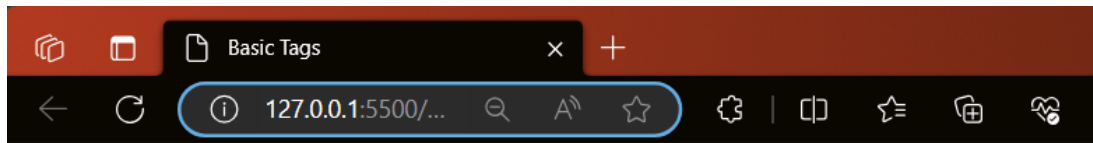
AIM

Develop an HTML page using all basic tags.

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Basic Tags</title>
</head>
<body>
  <H2> Physical Style Tags </H2>
    This is bold text - <b>GCT</b> <br>
    This is italics - <i>GCT</i> <br>
    This is underlined - <u>GCT</u> <br>
    This is strikethrough text <s>GCT</s> <br> <br>
  <H2> Big and small sized fonts</H2>
    ABCD<BIG>EFG</BIG>
    HIJ<SMALL>KLMN</SMALL> OPQ <br> <br>
  <h2> Subscript and Superscript</h2>
    (10)<sub>2</sub> <br>
    (a+b)<sup>2</sup> <br>
    January 31<sup>st</sup> <br> <br>
  <h2> HTML Heading Tags </H2>
    <H1>Heading 1: KBM GOVT COLLEGE THALASSERY</H1>
    <H2>Heading 2: KBM GOVT COLLEGE THALASSERY</H2>
    <H3>Heading 3: KBM GOVT COLLEGE THALASSERY</H3>
    <H4>Heading 4: KBM GOVT COLLEGE THALASSERY</H4>
    <H5>Heading 5: KBM GOVT COLLEGE THALASSERY</H5>
    <H6>Heading 6: KBM GOVT COLLEGE THALASSERY</H6> <br>
  <H2> Paragraph Tag</H2>
    <P> This is a paragraph tag. When this thag is used, browser adds a
    new line before and after the paragraph </P> <br>
  <h2> Preformatter Tag</h2>
    <pre>
      Kodiyeri Balakrishnan Memorial Govt. College Thalassery
      Post Graduate Department of Computer Science
    </pre>
  <h1> Thankyou </h1>
</body>
</html>
```

OUTPUT



Physical Style Tags

This is bold text - **GCT**
This is italics - *GCT*
This is underlined - GCT
This is strikethrough text ~~GCT~~

Big and small sized fonts

ABCDEFGH IJKLMNOPQ

Subscript and Superscript

$(10)_2$
 $(a+b)^2$
January 31st

HTML Heading Tags

Heading 1: KBM GOVT COLLEGE THALASSERY

Heading 2: KBM GOVT COLLEGE THALASSERY

Heading 3: KBM GOVT COLLEGE THALASSERY

Heading 4: KBM GOVT COLLEGE THALASSERY

Heading 5: KBM GOVT COLLEGE THALASSERY

Heading 6: KBM GOVT COLLEGE THALASSERY

Paragraph Tag

This is a paragraph tag. When this tag is used, browser adds a new line before and after the paragraph

Preformatter Tag

```
Kodiyeri Balakrishnan Memorial Govt. College Thalassery
Post Graduate Department of Computer Science
```

Thankyou

RESULT

The webpage has been implemented successfully.

PROGRAM 2

HOTEL MENU LIST

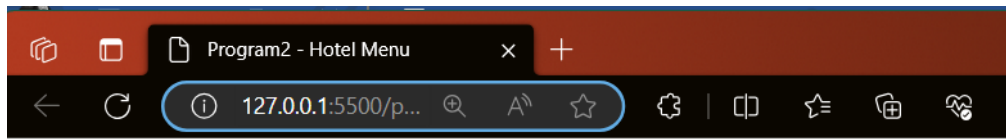
AIM

Develop an HTML page to display a hotel menu using all types of lists.

PROGRAM

```
<html>
<head>
  <title>Program2 - Hotel Menu</title>
</head>
<body>
  <h1>HOTEL IRIS</h1>
  <ol type="I">
    <li>Breakfast
      <ul type="circle">
        <li>Dosha : 10</li>
        <li>Idli : 10</li>
        <li>Vada : 10</li>
      </ul>
    </li>
    <li>Lunch
      <ul type="disc">
        <li>Meals : 40</li>
        <li>Biriyani : 120</li>
        <li>Fried Rice : 130</li>
      </ul>
    </li>
    <li>Dinner
      <ul type="square">
        <li>Chappathi : 5</li>
        <li>Soup : 40</li>
        <li>Fried Rice : 100</li>
      </ul>
    </li>
  </ol>
  <h4>Desserts</h4>
  <ol type="I">
    <li>Light
      <dl>
        <dt>IRIS SWEET 1 : 30</dt>
        <dd>Pack of Laddu , Jillebi , Gullab jam , Petha </dd>
        <dt>IRIS SWEET 2 : 60</dt>
        <dd>Pack of Cake , Pak , Badusa</dd>
      </dl>
    </li>
  </ol>
</body>
</html>
```

OUTPUT



HOTEL IRIS

I. Breakfast

- Dosha : 10
- Idli : 10
- Vada : 10

II. Lunch

- Meals : 40
- Biryani : 120
- Fried Rice : 130

III. Dinner

- Chappathi : 5
- Soup : 40
- Fried Rice : 100

Desserts

1. Light

IRIS SWEET 1 : 30

Pack of Laddu , Jillebi , Gullab jam , Petha

IRIS SWEET 2 : 60

Pack of Cake , Pak , Badusa

2. Heavy

Chocolate lawa cake : 100

Cake rich in dark chocolate 50g

Meria Melody Cake : 100

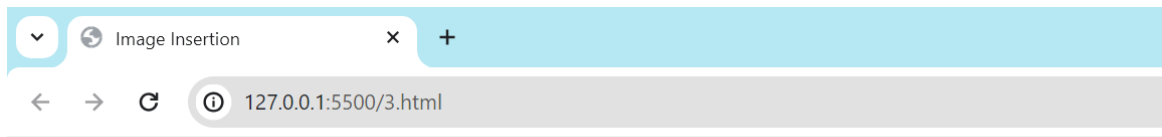
Cake maded with caramel cream and dry fruits

```
</dl>
</li>
<li>Heavy
  <dl>
    <dt>Chocolate lawa cake : 100</dt>
    <dd>Cake rich in dark chocolate 50g</dd>
    <dt>Meria Melody Cake : 100</dt>
    <dd>Cake maded with caramel cream and dry fruits</dd>
  </dl>
</li>
</ol>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

OUTPUT



Image



This is some text aligned with respect to the image.

PROGRAM 3

IMAGE INSERTION

AIM

Write an HTML code to insert an image into the web page. Use the attributes height, width and border. Also align some text with respect to the images. The image should have an ALT text in it.

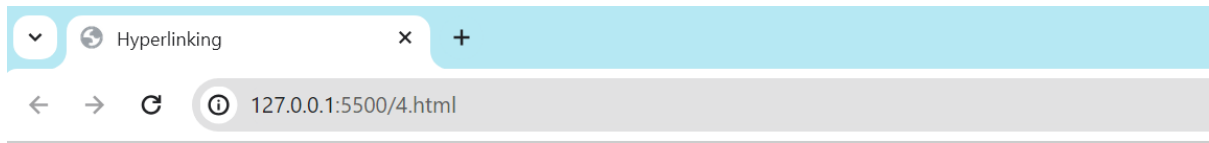
PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Image Insertion</title>
</head>
<body>
  <body>
    <h1>Image</h1>
    
    <div>
      <p>This is some text aligned with respect to the image.</p>
    </div>
  </body>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

OUTPUT



Links and Image

Click the image below to visit our homepage:



Click the link below to open it in a new window:

[Visit Example.com in a new window](#)

Click the link below to jump to another part of this document:

[Jump to Section 2](#)

Section 2

This is the content of Section 2. You've successfully jumped to this part of the document.

PROGRAM 4

HYPERLINKING

AIM

Design a HTML page for the following.

- a) Set an image as a link.
- b) Open a link in a new browser window.
- c) Jump to another part of a document (on same page).

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hyperlinking</title>
</head>
<body>
  <h1>Links and Image</h1>
  <p>Click the image below to visit our homepage:</p>
  <a href="https://www.example.com" target="_blank">
    
  </a>
  <hr>
  <p>Click the link below to open it in a new window:</p>
  <a href="https://www.example.com" target="_blank">Visit Example.com in a new
window</a>
  <hr>
  <p>Click the link below to jump to another part of this document:</p>
  <a href="#section2">Jump to Section 2</a>
  <h2 id="section2">Section 2</h2>
  <p>This is the content of Section 2. You've successfully jumped to this part of the
document.</p>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

PROGRAM 5 TEMPERATURE TABLE

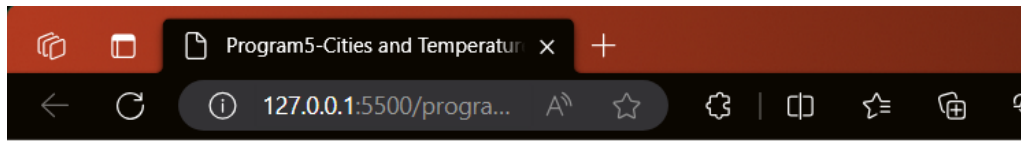
AIM

Create a web page to display the maximum and minimum temperature of 5 cities using table.

PROGRAM

```
<html>
<head>
  <title>Program5-Cities and Temperature</title>
</head>
<body>
  <table border="1" bgcolor="grey" bordercolor="black" width="500px"
height="200px" cellpadding="13" cellspacing="3">
    <caption>TEMPERATURE TABLE</caption>
    <tr>
      <th rowspan="2">CITY</th>
      <th colspan="2">Temperature(&deg; C)</th>
    </tr>
    <tr>
      <th>MIN</th>
      <th>MAX</th>
    </tr>
    <tr>
      <td>KANNUR</td>
      <td>26</td>
      <td>32</td>
    </tr>
    <tr>
      <td>KOZHIKODE</td>
      <td>24</td>
      <td>32</td>
    </tr>
    <tr>
      <td>WAYANAD</td>
      <td>20</td>
      <td>29</td>
    </tr>
    <tr>
      <td>PALAKKAD</td>
      <td>23</td>
      <td>26</td>
    </tr>
```

OUTPUT



TEMPERATURE TABLE

CITY	Temperature(° C)	
	MIN	MAX
KANNUR	26	32
KOZHIKODE	24	32
WAYANAD	20	29
PALAKKAD	23	26
TRISSUR	20	29

```
<tr>
  <td>TRISSUR</td>
  <td>20</td>
  <td>29</td>
</tr>
</table>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

PROGRAM 6

COLLEGE WEBPAGE

AIM

Create a web page for your college using frames, images and hyperlink.

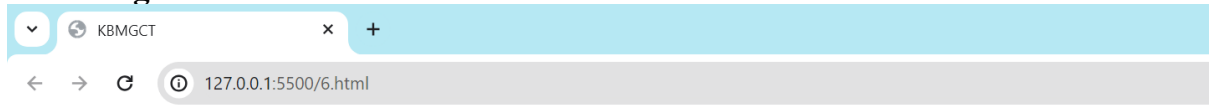
PROGRAM

```
<!-- MAIN PAGE -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>KBMGCT</title>
</head>
<frameset rows="20%, 80%" frameborder="2" framespacing="10" marginheight="5"
marginwidth="5">
  <frame src="6.1.html" name="header" scrolling="no" noresize="noresize">
  <frame src="6.2.html" name="main_content" scrolling="auto"
noresize="noresize">
</frameset>
</html>
```

```
<!-- HEADER PAGE -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>KBMGCT College Header</title>
</head>
<body>
  <h1>Kodiyeri Balakrishnan Memorial Govt. College Thalassery</h1>
  
</body>
</html>
```

OUTPUT

Main Page



Kodiyeri Balakrishnan Memorial Govt. College Thalassery



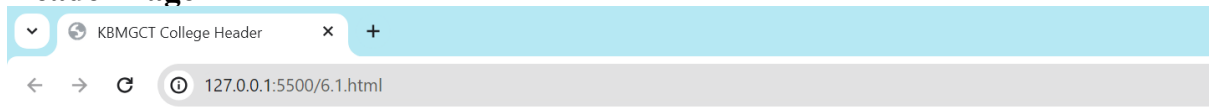
Welcome to Kodiyeri Balakrishnan Memorial Govt. College Thalassery.

The Departments are

- Post Graduate Department of Computer Science
- Department of Commerce
- Department of History

Explore our official website for more information: <http://govtcollegeitly.ac.in>

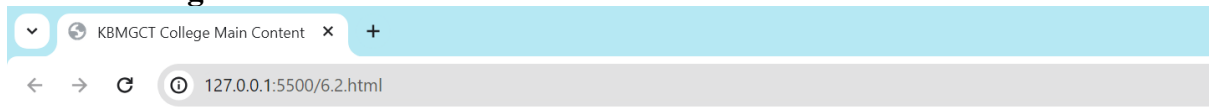
Header Page



Kodiyeri Balakrishnan Memorial Govt. College Thalassery



Contents Page



Welcome to Kodiyeri Balakrishnan Memorial Govt. College Thalassery.

The Departments are

- Post Graduate Department of Computer Science
- Department of Commerce
- Department of History

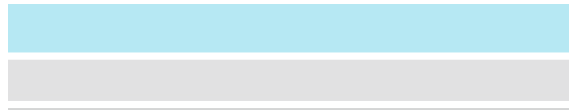
Explore our official website for more information: <http://govtcollegeitly.ac.in>


```
<!-- CONTENTS PAGE -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>KBMGCT College Main Content</title>
</head>
<body>
  <p>Welcome to Kodyeri Balakrishnan Memorial Govt. College Thalassery.</p>
  <p>The Departments are <br>
  <ul>
    <li>Post Graduate Department of Computer Science</li>
    <li>Department of Commerce</li>
    <li>Department of History</li>
  </ul></p>
  <p>Explore our official website for more information: <a
href="http://govtcollegetly.ac.in" target="_blank">http://govtcollegetly.ac.in</a></p>
</body>
</html>
```

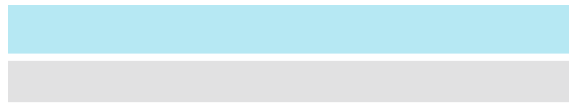
RESULT

The webpage has been implemented successfully.

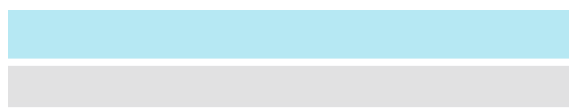
OUTPUT



Hover me



Mouse Over!



Mouse Out!

PROGRAM 7

MOUSE EVENTS

AIM

Create a web page that illustrate the onMouseOver and onMouseOut event handlers.

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Mouse Events</title>
  <style>
    #hoverBox {
      width: 200px;
      height: 100px;
      background-color: #e0e0e0;
      text-align: center;
      line-height: 100px;
      margin: 50px auto;
      cursor: pointer;
    }
  </style>
  <script>
    function onHover() {
      document.getElementById("hoverBox").style.backgroundColor = "#a0a0a0";
      document.getElementById("hoverBox").innerHTML = "Mouse Over!";
    }
    function onHoverOut() {
      document.getElementById("hoverBox").style.backgroundColor = "#e0e0e0";
      document.getElementById("hoverBox").innerHTML = "Mouse Out!";
    }
  </script>
</head>
<body>
  <div id="hoverBox" onmouseover="onHover()"
    onmouseout="onHoverOut()">Hover me</div>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

PROGRAM 8

FORM VALIDATION USING JAVASCRIPT

AIM

Create a webpage for form validation using JavaScript.

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form Validation JS</title>
</head>
<body>
  <h2>JavaScript Form Validation</h2>
  <form action="" name="myform" onsubmit="validateForm()">
    First Name: <input type="text" name="" id="fname"> <br><br>
    Last Name: <input type="text" name="" id="lname"> <br><br>
    Mobile No: <input type="tel" name="" id="mob"> <br><br>
    <input type="submit" value="Submit">
  </form>

  <script>
    function validateForm(){
      var fname = document.myform.fname.value;
      var lname = document.myform.lname.value;
      var mob = document.myform.mob.value;
      if (fname.length == 0){
        alert('First Name Cannot Be Blank!');
      }

      else if (lname.length == 0){
        alert('Last Name Cannot Be Blank!');
      }

      else if (mob.length == 0){
        alert('Mobile Number Cannot Be Blank!');
      }

      else if (mob.length < 10){
        alert('Mobile Number Cannot Be Less Than 10 Digits!')
      }
      else{
```

OUTPUT

Form Validation JS

127.0.0.1:5500/8.html

JavaScript Form Validation

First Name:

Last Name:

Mobile No:

127.0.0.1:5500 says

First Name Cannot Be Blank!

OK

Form Validation JS

127.0.0.1:5500/8.html?

JavaScript Form Validation

First Name:

Last Name:

Mobile No:

127.0.0.1:5500 says

Last Name Cannot Be Blank!

OK

Form Validation JS

127.0.0.1:5500/8.html?

JavaScript Form Validation

First Name:

Last Name:

Mobile No:

127.0.0.1:5500 says

Mobile Number Cannot Be Blank!

OK

Form Validation JS

127.0.0.1:5500/8.html?

JavaScript Form Validation

First Name:

Last Name:

Mobile No:

127.0.0.1:5500 says

Mobile Number Cannot Be Less Than 10 Digits!

OK

Form Validation JS

127.0.0.1:5500/8.html?

JavaScript Form Validation

First Name:

Last Name:

Mobile No:

127.0.0.1:5500 says

Form Validated!

OK

```
        alert('Form Validated!')
    }
}
</script>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

PROGRAM 9

EMAIL REGISTRATION FORM

AIM

Create an Email registration form. Give necessary validations.

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Email Registration Form</title>
  <style>
    .error {
      color: red;
    }
  </style>
</head>

<body>
  <h2>Email Registration</h2>
  <form id="registrationForm" onsubmit="return validateForm()">
    <label for="fullName">Full Name:</label>
    <input type="text" id="fullName" name="fullName">
    <span id="fullNameError" class="error"></span><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email">
    <span id="emailError" class="error"></span><br><br>
    <label for="password">Password:</label>
    <input type="password" id="password" name="password">
    <span id="passwordError" class="error"></span><br><br>
    <label for="password">Confirm Password:</label>
    <input type="password" id="cpassword" name="cpassword">
    <span id="cpasswordError" class="error"></span><br><br>
    <input type="submit" value="Register">
  </form>

  <script>
    function validateForm() {
      document.getElementById("fullNameError").innerText = "";
      document.getElementById("emailError").innerText = "";
      document.getElementById("passwordError").innerText = "";
      document.getElementById("cpasswordError").innerText = "";
    }
  </script>
</body>
</html>
```

OUTPUT

Email Registration Form

127.0.0.1:5500/9.html

Email Registration

Full Name:

Full Name is required

Email:

Password:

Confirm Password:

Register

Email Registration Form

127.0.0.1:5500/9.html

Email Registration

Full Name:

Walter White

Email:

Email is required

Password:

Confirm Password:

Register

Email Registration Form

127.0.0.1:5500/9.html

Email Registration

Full Name:

Walter White

Email:

heisenberg@gmail.com

Password:

Password must be at least 8 characters

Confirm Password:

Register

Email Registration Form

127.0.0.1:5500/9.html

Email Registration

Full Name:

Walter White

Email:

heisenberg@gmail.com

Password:

Password must be at least 8 characters

Confirm Password:

Register

Email Registration Form

127.0.0.1:5500/9.html

Email Registration

Full Name:

Walter White

Email:

heisenberg@gmail.com

Password:

Confirm Password:

Passwords do not match

Register

Email Registration Form

127.0.0.1:5500/9.html?fullName=Walter+White&email=heisenberg%40gmail.com&password=12345678&cpassword=12345678

Email Registration

Full Name:

Walter White

Email:

heisenberg@gmail.com

Password:

Confirm Password:

Register

127.0.0.1:5500 says
Registration successful!

OK

```

var fullName = document.getElementById("fullName").value;
var email = document.getElementById("email").value;
var password = document.getElementById("password").value;
var cpassword = document.getElementById("cpassword").value;

if (fullName === "") {
    document.getElementById("fullNameError").innerText = "Full Name is
required";
    return false;
}

if (email === "") {
    document.getElementById("emailError").innerText = "Email is required";
    return false;
}

if (password.length < 8) {
    document.getElementById("passwordError").innerText = "Password must be at
least 8 characters";
    return false;
}

if(password!=cpassword){
    document.getElementById("cpasswordError").innerText = "Passwords do not
match";
    return false;
}

alert("Registration successful!");
return true;
}
</script>

</body>
</html>

```

RESULT

The webpage has been implemented successfully.

OUTPUT



JavaScript Arrays Demo

Original Array: Apple, Banana, Orange, Grapes

Accessing element at index 1: Banana

After modifying element at index 2: Apple, Banana, Mango, Grapes

After adding Pineapple to the end: Apple, Banana, Mango, Grapes, Pineapple

After removing the last element (Pineapple): Apple, Banana, Mango, Grapes

Index of Banana: 1

Length of the array: 4

PROGRAM 10

JAVASCRIPT ARRAYS

AIM

Write a JavaScript code to demonstrate arrays.

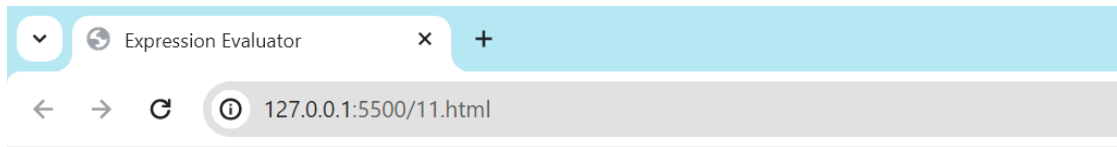
PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Arrays</title>
</head>
<body>
  <h1>JavaScript Arrays Demo</h1>
  <script>
    var fruits = ['Apple', 'Banana', 'Orange', 'Grapes'];
    document.write('<p>Original Array: ' + fruits.join(', ') + '</p>');
    document.write('<p>Accessing element at index 1: ' + fruits[1] + '</p>');
    fruits[2] = 'Mango';
    document.write('<p>After modifying element at index 2: ' + fruits.join(', ')
+ '</p>');
    fruits.push('Pineapple');
    document.write('<p>After adding Pineapple to the end: ' + fruits.join(', ') +
'</p>');
    var removedElement = fruits.pop();
    document.write('<p>After removing the last element (' + removedElement
+ '): ' + fruits.join(', ') + '</p>');
    var index = fruits.indexOf('Banana');
    document.write('<p>Index of Banana: ' + index + '</p>');
    document.write('<p>Length of the array: ' + fruits.length + '</p>');
  </script>
</body>
</html>
```

RESULT

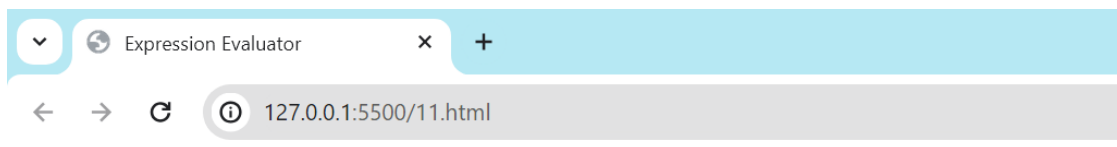
The webpage has been implemented successfully.

OUTPUT



Expression Evaluator

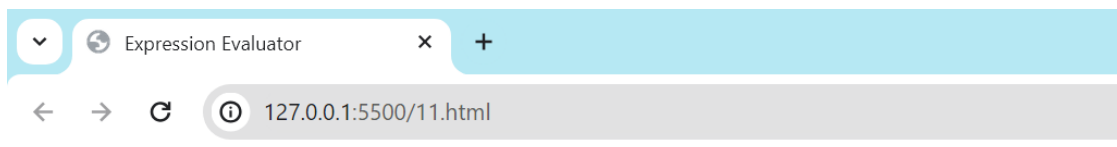
Enter an expression:



Expression Evaluator

Enter an expression:

Error: Invalid expression



Expression Evaluator

Enter an expression:

Result: 65

PROGRAM 11

EXPRESSION EVALUATION

AIM

Develop an HTML page that accepts any mathematical expression, evaluates that expression and display the result of the evaluation.

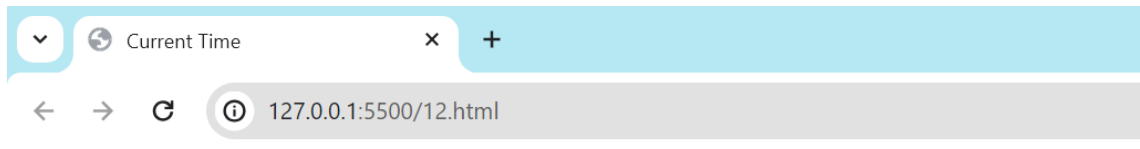
PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Expression Evaluator</title>
</head>
<body>
  <h1>Expression Evaluator</h1>
  <label for="expression">Enter an expression:</label>
  <input type="text" id="expression" placeholder="e.g., 2 + 3 * 5">
  <button onclick="evaluateExpression()">Evaluate</button>
  <p id="result"></p>
  <script>
    function evaluateExpression() {
      var expressionInput = document.getElementById('expression');
      var resultParagraph = document.getElementById('result');
      var expression = expressionInput.value;
      var result = eval(expression);
      if (!isNaN(result)) {
        resultParagraph.innerHTML = 'Result: ' + result;
      } else {
        resultParagraph.innerHTML = 'Error: Invalid expression';
      }
    }
  </script>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

OUTPUT



Current Time

Current Time: 13:33:13

PROGRAM 12

CURRENT TIME

AIM

Write a JavaScript program to display the current time.

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Current Time</title>
</head>
<body>
  <h1>Current Time</h1>
  <p id="currentTime"></p>
  <script>
    function updateCurrentTime() {
      var currentTimeElement = document.getElementById('currentTime');
      var currentTime = new Date();
      var hours = currentTime.getHours();
      var minutes = currentTime.getMinutes();
      var seconds = currentTime.getSeconds();
      hours = (hours < 10) ? '0' + hours : hours;
      minutes = (minutes < 10) ? '0' + minutes : minutes;
      seconds = (seconds < 10) ? '0' + seconds : seconds;
      var formattedTime = hours + ':' + minutes + ':' + seconds;
      currentTimeElement.innerHTML = 'Current Time: ' + formattedTime;
    }
    setInterval(updateCurrentTime, 1000);
    updateCurrentTime();
  </script>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

PROGRAM 13

PRIME NUMBERS

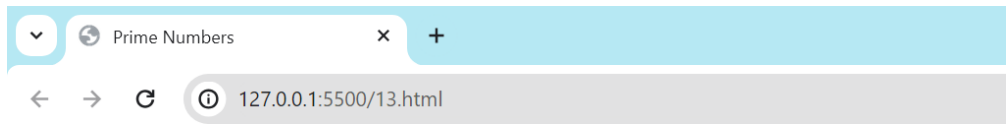
AIM

Write a JavaScript program to print the prime numbers within a range.

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Prime Numbers</title>
</head>
<body>
  <h1>Prime Numbers in a Range</h1>
  <label for="start">Start Range:</label>
  <input type="number" id="start" placeholder="Enter start range"> <br> <br>
  <label for="end">End Range:</label>
  <input type="number" id="end" placeholder="Enter end range"> <br> <br>
  <button onclick="printPrimeNumbers()">Find Prime Numbers</button>
  <p id="result"></p>
  <script>
    function isPrime(number) {
      if (number <= 1) {
        return false;
      }
      for (let i = 2; i <= Math.sqrt(number); i++) {
        if (number % i === 0) {
          return false;
        }
      }
      return true;
    }
    function printPrimeNumbers() {
      var startRange = Number(document.getElementById('start').value);
      var endRange = Number(document.getElementById('end').value);
      var resultParagraph = document.getElementById('result');
      var primes = [];
      if (isNaN(startRange) || isNaN(endRange)) {
        resultParagraph.innerHTML = 'Please enter valid numeric values for
both start and end range.';
      }
    }
  </script>
</body>
</html>
```

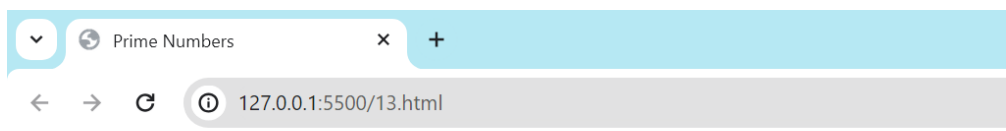
OUTPUT



Prime Numbers in a Range

Start Range:

End Range:

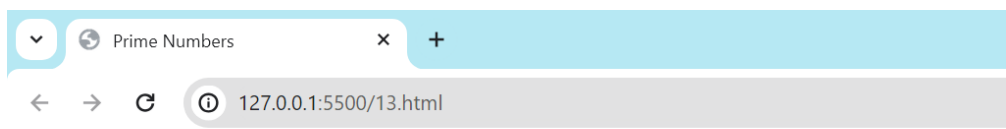


Prime Numbers in a Range

Start Range:

End Range:

Prime numbers in the range:
2, 3, 5, 7, 11, 13, 17, 19



Prime Numbers in a Range

Start Range:

End Range:

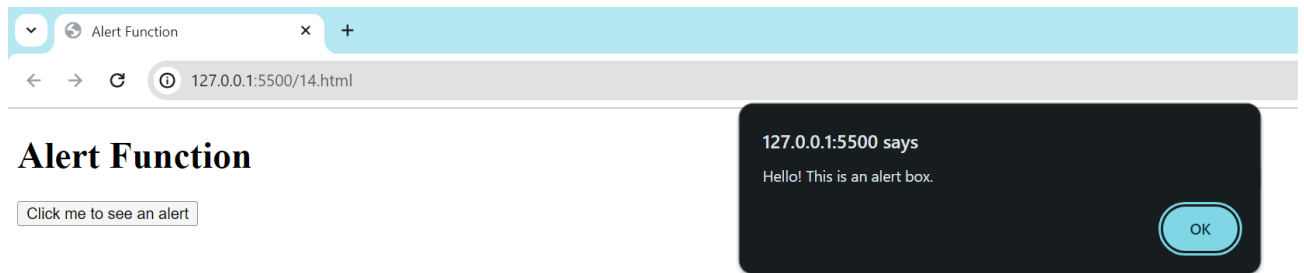
No prime numbers found in the specified range.

```
        return;
    }
    for (let i = startRange; i <= endRange; i++) {
        if (isPrime(i)) {
            primes.push(i);
        }
    }
    if (primes.length > 0) {
        resultParagraph.innerHTML = 'Prime numbers in the range: <br>' +
primes.join(', ');
    } else {
        resultParagraph.innerHTML = 'No prime numbers found in the
specified range.';
    }
}
</script>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

OUTPUT



PROGRAM 14

ALERT FUNCTION

AIM

Write a JavaScript program to show the working of alert() function.

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Alert Function</title>
</head>
<body>
  <h1>Alert Function</h1>
  <button onclick="showAlert()">Click me to see an alert</button>
  <script>
    function showAlert() {
      alert('Hello! This is an alert box.');
```

RESULT

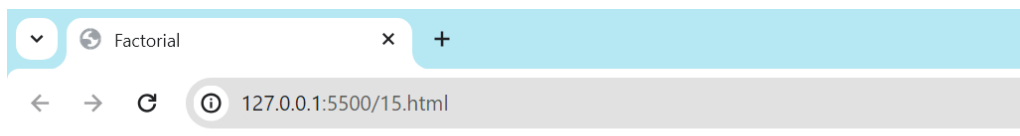
The webpage has been implemented successfully.

OUTPUT



Factorial Calculator

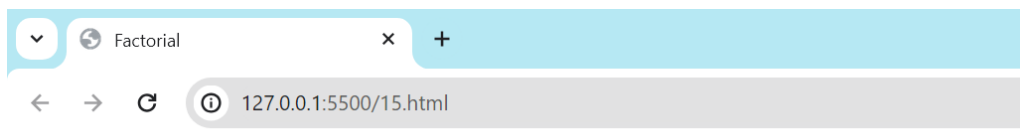
Enter a number:



Factorial Calculator

Enter a number:

Factorial of 5 is: 120



Factorial Calculator

Enter a number:

Please enter a valid non-negative integer.

PROGRAM 15

FACTORIAL

AIM

Write a JavaScript program to find the factorial of a number.

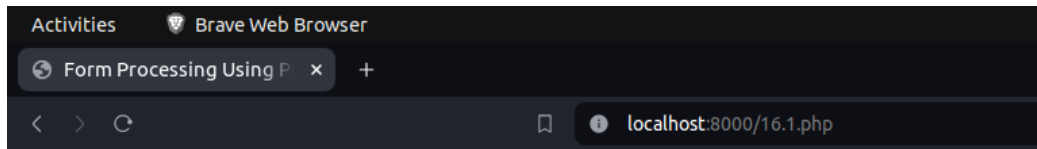
PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Factorial</title>
</head>
<body>
  <h1>Factorial Calculator</h1>
  <label for="number">Enter a number:</label>
  <input type="number" id="number" style="width: 200px;"
placeholder="Enter a non-negative integer"> <br> <br>
  <button onclick="calculateFactorial()">Calculate Factorial</button>
  <p id="result"></p>
  <script>
    function calculateFactorial() {
      var inputNumber = document.getElementById('number').value;
      var resultParagraph = document.getElementById('result');
      var number = parseInt(inputNumber);
      if (isNaN(number) || number < 0 || !Number.isInteger(number)) {
        resultParagraph.innerHTML = 'Please enter a valid non-negative integer.';
        return;
      }
      var factorial = 1;
      for (var i = 2; i <= number; i++) {
        factorial *= i;
      }
      resultParagraph.innerHTML = 'Factorial of ' + number + ' is: ' +
factorial;
    }
  </script>
</body>
</html>
```

RESULT

The webpage has been implemented successfully.

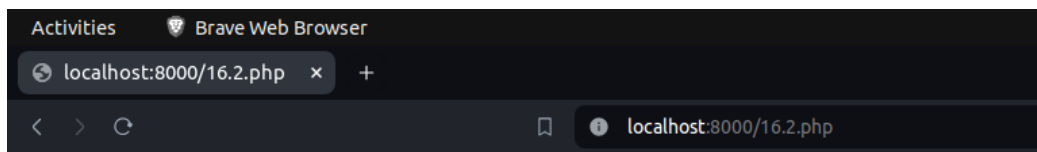
OUTPUT



Simple Form

Name:

Email:



Form Data:

Name: Walter White

Email: heisenberg@gmail.com

PROGRAM 16

FORM PROCESSING USING PHP

AIM

Implement form processing using PHP.

PROGRAM

```
<!-- form.php -->
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Form Processing Using PHP</title>
</head>
<body>
  <h1>Simple Form</h1>
  <form method="post" action="processform.php">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required> <br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required> <br><br>
    <button type="submit">Submit</button>
  </form>
</body>
</html>

<!-- processform.php -->
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $name = $_POST["name"];
  $email = $_POST["email"];
  echo "<h2>Form Data:</h2>";
  echo "<p>Name: $name</p>";
  echo "<p>Email: $email</p>";
} else {
  header("Location: form.php");
  exit();
}
```

RESULT

The webpage has been implemented successfully.

PROGRAM 17

FORM VALIDATION USING PHP

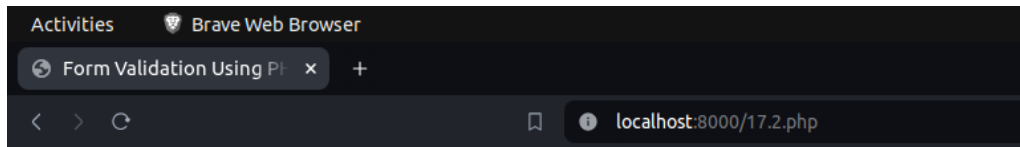
AIM

Implement form validation using PHP.

PROGRAM

```
<!-- form.php -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form Validation Using PHP</title>
</head>
<body>
    <h1>Simple Form</h1>
    <form method="post" action="validateform.php">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name">
        <span style="color: red;"><?php if(isset($nameErr)) { echo
$nameErr; } ?></span> <br> <br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email">
        <span style="color: red;"><?php if(isset($emailErr)) { echo
$emailErr; } ?></span> <br> <br>
        <button type="submit">Submit</button>
    </form>
</body>
</html>
```

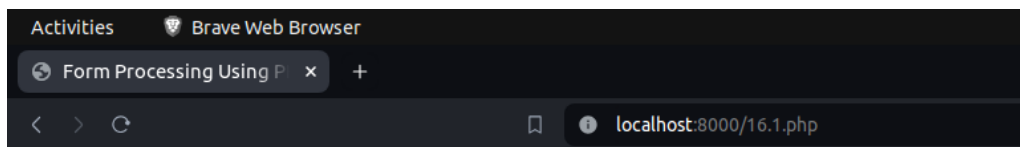
OUTPUT



Simple Form

Name: Name is required

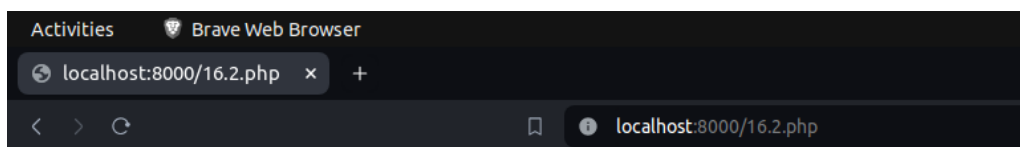
Email: Email is required



Simple Form

Name:

Email:



Form Data:

Name: Walter White

Email: heisenberg@gmail.com

```

<!-- processform.php -->
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {

    $name = trim($_POST["name"]);
    if (empty($name)) {
        $nameErr = "Name is required";
    }
    $email = trim($_POST["email"]);
    if (empty($email)) {
        $emailErr = "Email is required";
    }
    if (empty($nameErr) && empty($emailErr)) {
        echo "<h2>Form Data:</h2>";
        echo "<p>Name: $name</p>";
        echo "<p>Email: $email</p>";
    } else {
        include 'form.php';
    }
} else {
    header("Location: form.php");
    exit();
}
?>

```

RESULT

The webpage has been implemented successfully.

PROGRAM 18

MYSQL CONNECTIVITY

AIM

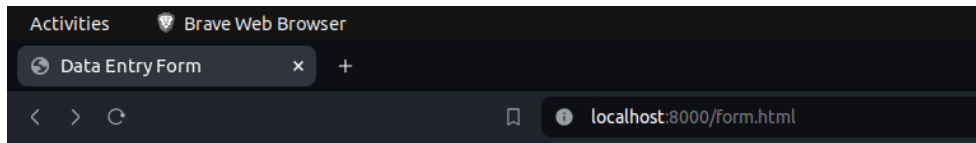
Store data in MySQL using PHP.

PROGRAM

```
<!-- form.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Data Entry Form</title>
</head>
<body>
    <h1>Data Entry Form</h1>
    <form method="post" action="processform.php">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required> <br><br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required> <br><br>
        <button type="submit">Submit</button>
    </form>
</body>
</html>
```

```
<!-- connect.php -->
<?php
$servername = "localhost";
$username = "gct";
$password = "password";
$dbname = "mydatabase";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
```

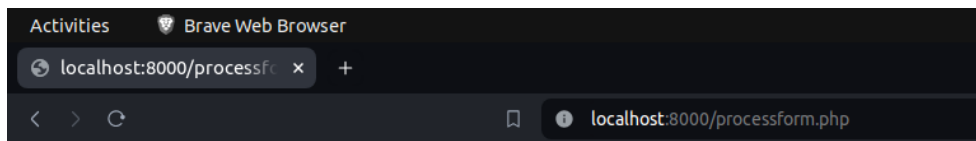
OUTPUT



Data Entry Form

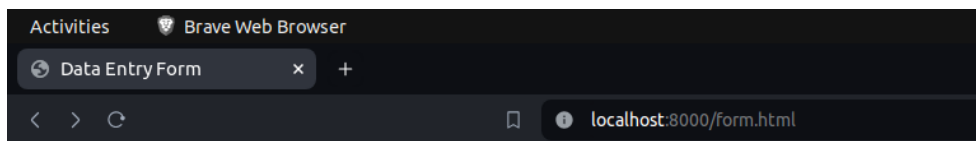
Name:

Email:



Data inserted successfully

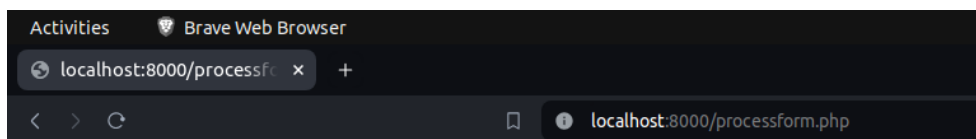
ID	Name	Email
4	Walter White	heisenberg@gmail.com



Data Entry Form

Name:

Email:



Data inserted successfully

ID	Name	Email
4	Walter White	heisenberg@gmail.com
5	Joseph Tribbiani	joeytrib@gmail.com

```

<!-- processform.php -->
<?php
include 'connect.php';
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST["name"];
    $email = $_POST["email"];
    $sql = "INSERT INTO users (name, email) VALUES ('$name', '$email')";
    if ($conn->query($sql) === TRUE) {
        echo "Data inserted successfully <br>";
        $selectQuery = "SELECT id, name, email FROM users";
        $result = $conn->query($selectQuery);
        if ($result->num_rows > 0) {
            echo "<table border='1'>
                <tr>
                    <th>ID</th>
                    <th>Name</th>
                    <th>Email</th>
                </tr>";
            while ($row = $result->fetch_assoc()) {
                echo "<tr>
                    <td>" . $row["id"] . "</td>
                    <td>" . $row["name"] . "</td>
                    <td>" . $row["email"] . "</td>
                </tr>";
            }
            echo "</table>";
        } else {
            echo "No records found";
        }
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}
$conn->close();

```

RESULT

The webpage has been implemented successfully.

