

Muthoot Institute of Technology and Science

Varikoli P.O, Puthencruz,

Ernakulam – 682308



Master of Computer Applications

LAB RECORD

Course Name: 20MCA133 WEB PROGRAMMING LAB

NAME.....

REG. NO..... SEMESTER.....

MONTH & YEAR.....

Lab Cycle 1

CO1: Explore markup languages features and create interactive web pages using them.

Program # 1

1.Create a simple web application to display your Resume (CV) using various text formatting features, table, list and link within a page in HTML.

PROGRAM CODE:

page 1.html

```
<html>
<body>

<h2><b><p>JENCY BENNY</b></h2>
<h3><b><p>jencybenny2020@gmail.com</h3>
<h3><b><p>9778396042</h3>
<h3><b><p>Thayil(H)Varikoli po Puthecruz,Ernakulam,682308</h3></b></p><br>
<h2><b><u>EDUCATION QUALIFICATION</u>angit
<table border="1" width="500" height="200">
<tr>
<th><b>Level</b></th>
<th><b>Board<b></th>
<th><b>Mark</th>
</tr>
<tr>
<td>10</td>
<td>STATE BOARD</td>
<td>70%</td>
</tr>
<tr>
```

```
<td>12</td>
<td>STATE BOARD</td>
<td>80%</td>
</tr>
<tr>
<td>BCA</td>
<td>MGU</td>
<td>60%</td>
</tr>
</table>
<h4><u>Skills</u></h4>
<tr>
<li><b>c</b></li>
<li><b>c++</b></td>
<li><b>java</b></li>
<li><b>Python</b></li>
</tr>
<h4><b><u>Hobbies</u></b></h4>
<ul>
<h5><li>Reading</li>
<li>Travel</li>
<li>Talking</li></h5>+
</ul>
<a href="#footer">Go to footer</a><br>
<h4><u>achievemts</u></h4>
<tr>
<li>dance</li>
<li>sports</td>
</tr></br><br>
```

```
<a href = "page.html">About me</a>
</body>
</html>
```

Next page:about me

```
<html>
<head> <style>
p,li { font-size:20px;
font-weight:bold;
} a { color:black; }
div {
text-align: justify;
width: 1400px;
border: 15px solid
black; padding: 60px;
margin: 20px;
}
</style> </head>
<body
style="backgroundcolor:#ffffff;">
<div>
4
<p><a href="resume.html">
Go back</a></p>
<h2><u>Languages
Known</u></h2>
<ul>
<li>English</li>
<li>Malayalam</li>
```

Hindi

<h2><u>Personal

Details</u></h2>

Phone-8590353469

Email-jencybennyl08@gmail.com

Father-Benny Divanious

Mother-Philomina Benny

Thayyil (h)varikoli po puthencruz

Pin-682305

<h2><u>References</u></h2>

Mghss puthencruz-HSS

Ghss Kadayiruppu-HSE

BPC college Piravom-Degree

</div>

</body>

</html>

OUTPUT:

JENCY BENNY

jencybenny2020@gmail.com

9778396042

Thayil(H)Varikoli po Puthecruz,Ernakulam,682308

EDUCATION QUALIFICATION

Level	Board	Mark
10	STATE BOARD	70%
12	STATE BOARD	80%
BCA	MGU	60%

Skills

- c
- c++
- java
- Python

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BCA	MGU	60%
-----	-----	-----

Skills

- c
- c++
- java
- Python

Hobbies

- Reading
- Travel
- Talking

[Go to footer](#)

achievemts

- dance
- sports

[About me](#)

[Go back](#)

Languages Known

- English
- Malayalam
- Hindi

Personal Details

- Email-jencybenny108@gmail.com
- Father-Benny Divanious
- Mother-Philomina Benny
- Thayyil (h)varikoli po puthencruz Pin-682305

References

- Mghss puthencruz-HSS
- Ghss Kadayiruppu-HSE
- BPC college Piravom-Degree

Lab Cycle 2

CO2: Learn and design client-side validation using scripting languages.

Program # 6

6.Create a HTML page to explain the use of various predefined functions in a string and math

PROGRAM CODE:

Math.html

```
<html>
<head>
<title>Math Functions</title>
</head>
<body bgcolor="lightgreen">
<h2>MATH FUNCTIONS</h2>
<label for="userInput">Enter a number:</label>
<input type="text" id="userInput"><br>
<button onclick="performMathFunctions()">Submit</button>
<p id="output"></p>
<script>
function performMathFunctions() {
var userInput = document.getElementById("userInput").value;
var number = parseFloat(userInput);
var squareRoot = Math.sqrt(number);
var logValue=Math.log(number);
var logtenValue=Math.log10(number);
var absoluteValue = Math.abs(number);
var rounded = Math.round(number);
var ceilvalue=Math.ceil(number);
var floorvalue=Math.floor(number);
var r=Math.random();
var t=Math.trunc(number);
var s=Math.sign(number);
var output= "Square Root: " + squareRoot + "<br>";
output += "Logarithm: " + logValue+ "<br>";
output += "Logarithm to base 10: " +logtenValue+ "<br>";
output += "Absolute Value: " + absoluteValue + "<br>";
output += "Rounded Value: " + rounded+"<br>";
output += "Ceil Value: " + ceilvalue + "<br>";
output += "Floor Value: " + floorvalue + "<br>";
output += "Random Value: " + r+"<br>";
output += "Trunc Value: " + t+"<br>";
output += "Sign Value: " + s+"<br>";
document.getElementById("output").innerHTML = output;
```

```

}
</script>
<h4>Min and Max Calculator</h4>
<label for="numbers">Enter a list of numbers:</label>
<input type="text" id="numbers"><br>
<button onclick="calculateMinMax()">Calculate</button>
<p id="result"></p>
<script>
function calculateMinMax() {
const inputElement = document.getElementById("numbers");
const resultElement = document.getElementById("result");
const input = inputElement.value;
const numbers = input.split(',').map(item => parseFloat(item));
const min = Math.min(...numbers);
const max = Math.max(...numbers);
resultElement.innerHTML = `Minimum: ${min}<br>Maximum: ${max}`;
}
</script>
<h4>Power Calculator</h4>
<label for="base">Enter the base number:</label>
<input type="text" id="base">
<label for="power">Enter the exponent:</label>
<input type="text" id="power"><br>
<button onclick="calculatePower()">Calculate</button>
<p id="res"></p>
<script>
function calculatePower()
{
    var baseElement = document.getElementById("base");
    var powerElement = document.getElementById("power");
    var resultElement = document.getElementById("result");
    var base = parseFloat(baseElement.value);
    var power = parseFloat(powerElement.value);
    var res1 = Math.pow(base, power);
    res= "Power: " + res1 + "<br>";
    document.getElementById("res").innerHTML = res;
}
</script>
</body>
</html>

```

Frame.html

```

<html>
<head>
<frameset cols="50%,50%">
<frame src="mathfn.html"></frame>
<frame src="stringfn.html"></frame>

```

```

<body bgcolor="pink">
</frameset>
</head></body>
</html>

```

String.html

```

<html>
<head>
<title>String Functions</title>
</head>
<body bgcolor="lightgreen">
<h1>String Functions.</h1>
<label for="inputString">Enter a string:</label>
<input type="text" id="inputString"><br>
<label for="concatString">Enter a string to concatenate:</label>
<input type="text" id="concatString"><br>
<label for="replacePattern">Enter a pattern to replace:</label>
<input type="text" id="replacePattern"><br>
<label for="replacementString">Enter a replacement string:</label>
<input type="text" id="replacementString"><br>
<label for="start">Enter the starting index:</label>
<input type="number" id="start"><br>
<label for="end">Enter the ending index:</label>
<input type="number" id="end"><br>
<button onclick="performStringFunctions()">Submit</button>
<p id="output"></p>
<script>
    function performStringFunctions() {
        var inputString = document.getElementById("inputString").value;
        var length = inputString.length;
        var uppercase = inputString.toUpperCase();
        var lowercase = inputString.toLowerCase();
        var concatString = document.getElementById("concatString").value;
        var replacePattern = document.getElementById("replacePattern").value;
        var replacementString = document.getElementById("replacementString").value;
        var start = parseInt(document.getElementById("start").value);
        var end = parseInt(document.getElementById("end").value);
        var concatenatedString = inputString.concat(concatString);
        var replacedString = inputString.replace(replacePattern, replacementString);
        var substrResult = inputString.substr(start, end - start);
        var sliceResult = inputString.slice(start, end);
        var substringResult = inputString.substring(start, end);

        var output = "Length: " + length + "<br>";
        output += "Uppercase: " + uppercase + "<br>";
        output += "Lowercase: " + lowercase + "<br>";
        output += "Substring : " + substringResult + "<br>";
        output += "Substring: " + substrResult + "<br>";
    }

```

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```
output += "Concatenated String: " + concatenatedString + "<br>";  
output += "Slice: " + sliceResult + "<br>";  
output += "Replaced String: " + replacedString + "<br>";
```

```
output += "Original String: " + inputString + "<br><br>";  
document.getElementById("output").innerHTML = output;  
}  
</script>  
</body>  
</html>
```

frameset.html

```
<html>  
<frameset cols="50%,50%">  
<frame src="string.html"></frame>  
<frame src="math.html"></frame>  
</frameset>  
</html>
```

OUTPUT:

MATH FUNCTIONS	String Functions.
Enter a number: <input type="text" value="24"/> <input type="button" value="Submit"/>	Enter a string: <input type="text" value="Jency"/> Enter a string to concatenate: <input type="text" value="Benny"/> Enter a pattern to replace: <input type="text" value="J"/> Enter a replacement string: <input type="text" value="B"/> Enter the starting index: <input type="text" value="1"/> Enter the ending index: <input type="text" value="8"/> <input type="button" value="Submit"/>
Min and Max Calculator Enter a list of numbers: <input type="text" value="1,2,3,45,5"/> <input type="button" value="Calculate"/>	Length: 5 Uppercase: JENCY Lowercase: jency Substring : ency Substring: ency Concatenated String: JencyBenny Slice: ency Replaced String: Bency Original String: Jency
Power Calculator Enter the base number: <input type="text" value="8"/> Enter the exponent: <input type="text" value="2"/> <input type="button" value="Calculate"/> Power: 64	

Lab Cycle 2

CO2: Learn and design client-side validation using scripting languages.

Program # 7

7. Generate the calendar using JavaScript code by getting the year from the user.

PROGRAM CODE:

[illegible]

```

    } else if (day > lastDay) {
        week.push("");
    } else {
        week.push(day);
        day++;
    }
}
calendarArray.push(week);
var calendarHTML =
"<table><tr><th>Sun</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th><th>Sat</th></tr>";
for (var i = 0; i < 6; i++) {
    calendarHTML += "<tr>";
    if (calendarArray[i][j] === "") {
        calendarHTML += "<td></td>";
    } else {
        calendarHTML += "<td>" + calendarArray[i][j] + "</td>";
    }
}
calendarHTML += "</tr>";
}
calendarHTML += "</table>";
calendar.innerHTML = calendarHTML;
}
function getMonthName(month) {
    var monthNames = [
        "January", "February", "March", "April", "May", "June", "July", "August", "September", "October",
        "November", "December"];
    return monthNames[month - 1];
}
</script>
</center>
</body>
</html>

```

OUTPUT:

Calender generator

Enter a year (like 2023):

Enter a month (1-12):

April 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Cycle 2

CO2: Learn and design client-side validation using scripting languages

Program # 8

8.Create a HTML registration form and to validate the form using JavaScript code.

PROGRAM CODE:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Student Registration Form</title>
<style>
  body {
    font-family: Arial, sans-serif;
    background-image: url("clg.jpeg");
    margin: 0;
    padding: 0;
  }

  .container {
    width: 50%;
    margin: 0 auto;
    background-color: #fff;
    padding: 20px;
    border: 1px solid #ccc;
  }

  .form-group {
    margin: 10px 0;
  }

  label {
    display: block;
    font-weight: bold;
  }

  input[type="text"],
  textarea,
  select {
    width: 100%;
    padding: 10px;
```

```

border: 1px solid #ccc;
border-radius: 4px;
margin-top: 5px;
}

input[type="radio"],
input[type="checkbox"] {
    margin-right: 10px;
}

input[type="submit"] {
    background-color: #007bff;
    color: #fff;
    padding: 10px 20px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

input[type="submit"]:hover {
    background-color: #0056b3;
}

/* Style for marking required fields */
.required::after {
    content: ' *';
    color: red;
}
</style>
</head>
<body>
<div class="container">
<h2>Student Registration Form</h2>
<form onsubmit="return validateForm()">
    <div class="form-group">
        <label for="first_name" class="required">First Name:</label>
        <input type="text" id="first_name" name="first_name">
    </div>
    <div class="form-group">
        <label for="mname">Middle Name:</label>
        <input type="text" id="mname" name="mname">
    </div>
    <div class="form-group">
        <label for="last_name" class="required">Last Name:</label>
        <input type="text" id="last_name" name="last_name">
    </div>
    <div class="form-group">
        <label for="fname" class="required">Father's Name:</label>

```

```

<input type="text" id="fname" name="fname">
</div>
<div class="form-group">
  <label for="mtname">Mother's Name:</label>
  <input type="text" id="mtname" name="mtname">
</div>
<div class="form-group">
  <label class="required">Gender:</label>
  <input type="radio" id="male" name="gender" value="Male">Male
  <input type="radio" id="female" name="gender" value="Female">Female
  <input type="radio" id="others" name="gender" value="Others">Others
</div>
<div class="form-group">
  <label for="date_of_birth" class="required">Date of Birth:</label>
  <input type="text" id="date_of_birth" name="date_of_birth" placeholder="YYYY-MM-DD">
</div>
<div class="form-group">
  <label for="phone" class="required">Phone number:</label>
  <input type="text" id="phone" name="phone">
</div>
<div class="form-group">
  <label for="email" class="required">Email:</label>
  <input type="text" id="email" name="email">
</div>
<div class="form-group">
  <label for="state" class="required">State:</label>
  <input type="text" id="state" name="state">
</div>
<div class="form-group">
  <label for="district" class="required">District:</label>
  <input type="text" id="district" name="district">
</div>
<div class="form-group">
  <label for="address">Address:</label>
  <textarea id="address" name="address" rows="3" cols="30"></textarea>
</div>
<div class="form-group">
  <label for="courses" class="required">Select Course:</label>
  <select id="courses" name="courses">
    <option value="select" selected>Select</option>
    <option value="CS">CS</option>
    <option value="EEE">EEE</option>
    <option value="ME">ME</option>
    <option value="CE">CE</option>
    <option value="MCA">MCA</option>
  </select>
</div>
<div class="form-group">

```

```

    <label>Languages Known</label>
    <input type="checkbox" id="sports" name="interests" value="English">English
    <input type="checkbox" id="music" name="interests" value="Hindi">Hindi
    <input type="checkbox" id="dance" name="interests" value="Tamil">Tamil
    <input type="checkbox" id="art" name="interests" value="Kannada">Kannada
</div>
<div class="form-group">
    <center><input type="submit" value="Register"></center>
</div>
</form>
</div>

<script>
function validateForm() {
    var firstName = document.getElementById('first_name').value;
    var dateOfBirth = document.getElementById('date_of_birth').value;
    var phoneNumber = document.getElementById('phone').value;
    var email = document.getElementById('email').value;
    var state = document.getElementById('state').value;
    var district = document.getElementById('district').value;

    if (firstName === "") {
        alert('Please enter your First Name.');
```

```
        return false;
```

```
    }
```

```
    if (!/^[a-zA-Z]*$/i.test(firstName)) {
        alert('Name should not contain digits or special characters.');
```

```
        return false;
```

```
    }
```

```
    if (dateOfBirth === "") {
        alert('Please enter your Date of Birth.');
```

```
        return false;
```

```
    }
```

```
    if (phoneNumber === "") {
        alert('Please enter your Phone number.');
```

```
        return false;
```

```
    }
```

```
    if (isNaN(phoneNumber)) {
        alert('Phone number should not contain letters.');
```

```
        return false;
```

```
    }
```

```
    if (email === "") {
        alert('Please enter your Email.');
```

```
    return false;
  }

  if (!/\S+@\S+\.\S+/.test(email)) {
    alert('Please enter a valid Email address.');
```



```
    return false;
  }

  if (state === "") {
    alert('Please enter your State.');
```



```
    return false;
  }

  if (district === "") {
    alert('Please enter your District.');
```



```
    return false;
  }

  alert('Form submitted successfully!');
  return true;
}
</script>
</body>
</html>
```


OUTPUT:

Student Registration Form

First Name: *

Jency

Middle Name:

Last Name: *

Benny

Father's Name: *

Benny Divanious

Mother's Name:

Juby Benny

Gender: *

☐ Male ☒ Female ☐ Others

Date of Birth: *

2002-07-16

Phone number: *

8086394560

Email: *

jeibaben1223

Gender: *
☐ Male ☒ Female

Date of Birth: *
2002-07-16

Phone number: *
8086394560

Email: *
jeibaben1223

State: *
kerala

District: *
ernakulam

Address:
Thayyil(h)varikoli po puthencruz

Select Course: *
MCA

Languages Known
☒ English ☒ Hindi ☐ Tamil ☐ Kannada

Register

This page says

Please enter a valid Email address.

OK

Student Registration Form

First Name: *

Joel

Middle Name:

Last Name: *

Benny

Father's Name: *

Benny Divanious

Mother's Name:

Juby Benny

Gender: *

☐ Male ☒ Female ☐ Others

Date of Birth: *

2002-07-16

Phone number: *

8086394560

Email: *

joelbenny123@gmail.com

Gender: *
☐ Male ☒ Female

Date of Birth: *
2002-07-16

Phone number: *
8086394560

Email: *
joelbenny123@gmail.com

State: *
kerala

District: *
ernakulam

Address:
Thayyil(h)varikoli po ptz

Select Course: *
MCA

Languages Known
☒ English ☒ Hindi ☒ Tamil ☒ Kannada

Register

This page says
Form submitted successfully!
OK

Cycle 2

CO2: Learn and design client-side validation using scripting languages

Program # 9

9. Create a program using the JavaScript Event Listener to add multiple events on the same button

PROGRAM CODE:

```
<html>
<body bgcolor=#FF7F50>
<h2>JavaScript addEventListener()</h2>
<p>This uses the addEventListener()</p>
<button id="btn">Try it</button>
<p id="demo"></p>
<script>
var x = document.getElementById("btn");
x.addEventListener("mouseover", mouseOverFunction);
x.addEventListener("click", mouseClickFunction);
x.addEventListener("mouseout", mouseOutFunction);
function mouseOverFunction() {
document.getElementById("demo").innerHTML += "Moused over!<br>";
}
function mouseClickFunction() {
document.getElementById("demo").innerHTML += "Clicked!<br>";
}
function mouseOutFunction() {
document.getElementById("demo").innerHTML += "Moused out!<br>";
}
</script>
</body>
</html>
```

OUTPUT:

JavaScript addEventListener()

This uses the addEventListener()

Try it

Moused over!
Clicked!
Clicked!
Moused out!
Moused over!
Clicked!
Clicked!
Clicked!
Clicked!
Clicked!
Moused out!
Moused over!
Moused out!

Cycle 2

CO2: Learn and design client-side validation using scripting languages

Program # 10

10. Develop a JavaScript Event Handling mechanism to change the background colour of a HTML

PROGRAM CODE:

```
<html>
<head >
<title>We Can Change the Background Colours</title>
<style>
body { font-family: arial; }
#container { width: 600px;
height: 400px;
margin: 50px auto;
padding: 20px;
text-align: center;
border: 1px solid #ccc;}
</style>
</head>
<body>
<div id="container">
<h1>We Can Change the Background Colours</h1>
<p>Click Here</p> </div>
<script>
const container = document.getElementById('container');
container.addEventListener('click', () => {
const colors = ['#FF7F50', '#CCCCFF', '#FFFFFF', '#ff0', '#0ff', '#f0f'];
const randomColor = colors[Math.floor(Math.random() * colors.length)];
container.style.backgroundColor = randomColor; });
</script>
</body>
</html>
```

OUTPUT:

**We Can Change the Background
Colours**

[Click Here](#)

We Can Change the Background Colours

[Click Here](#)

We Can Change the Background Colours

[Click Here](#)

Cycle 2

CO2: Learn and design client-side validation using scripting languages

Program # 11

11.. Create a HTML page to display a new image and text when the mouse comes over the existing content in the page using JavaScript Event Handling mechanism.

PROGRAM CODE:

```
<html>
<head>
<meta charset="UTF-8">
<title>Image and Text Hover</title>
<style>
#image-container {
position: relative;
width: 600px;
height: 400px;
background-color: #ccc;
text-align: center;
}
#image-container img {
width: 100%;
height: auto; }
#hidden-content {
position: absolute;
top: 0;
left: 0;
width: 100%;
background-color: rgba(0, 0, 0, 0.5);
color: white;
text-align: center;
display: none; }
#main{padding-top: 80px;}
</style>
</head>
```

```

<body>
<div id="main">
<center><h1>Image</h1>
<div id="image-container">

<p id="image-text">I see a rose here !!</p>
<div id="hidden-content">

</center>
</div>
</div>
</div>
<script>
const imageContainer = document.getElementById('image-container');
const hiddenContent = document.getElementById('hidden-content');
const imageText = document.getElementById('image-text');
imageContainer.addEventListener('mouseover', () => {
hiddenContent.style.display = 'block';
imageText.textContent = 'Hey! I am a sunflower now!!'; });
imageContainer.addEventListener('mouseout', () => {
hiddenContent.style.display = 'none';
imageText.textContent = 'I see a rose here !!'; });
</script>
</body>
</html>

```

OUTPUT:

Image



I see a rose here !!

Image



Hey! I am a sunflower now!!

Cycle 2

CO2: Learn and design client-side validation using scripting languages

Program # 12

12.. Design and develop a complete Online exam using Html, CSS and JavaScript.

PROGRAM CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Web Programming Quiz</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background-color:lightblue ;
    }

    #examContainer {
      background-color: white;
      border: 5px solid white;
      padding: 20px;
    }

    form {
      text-align: left;
      background-color:white;
    }

    #result {
      margin-top: 20px;
      text-align: left;
    }
  </style>
</head>
<body>
```

20MCA133 Web Programming Lab Record

```
<div id="examContainer">
  <h1 align="center"><u>General Quiz</u></h1>

  <form id="examForm">
<h3>1. Which city is known as pink city of India?</h3>
  <label>
    <input type="radio" name="q1" value="Hypertext Markup Language">Jaipur
  </label>
  <label>
    <input type="radio" name="q1" value="Hyperlink Markup Language">Banglore
  </label>
  <label>
    <input type="radio" name="q1" value="Home tool Markup Language">Kochi
  </label>

  <h3>2. Who is the first computer programmer?</h3>
  <label>
    <input type="radio" name="q2" value="Rasmus Lerdorf">Ada Lovelace
  </label>
  <label>
    <input type="radio" name="q2" value="Tim Berners-Lee">Tim Berners-Lee
  </label>
  <label>
    <input type="radio" name="q2" value="Brendan Eich">Brendan Eich
  </label>

  <h3>3. Capital of UP: </h3>
  <label>
    <input type="radio" name="q3" value="a format tag">Lucknow
  </label>
  <label>
    <input type="radio" name="q3" value="an empty tag">Kanpur
  </label>
  <label>
    <input type="radio" name="q3" value="All of the above">not in choice.
  </label>
  <br>
  <br>
  <input type="button" value="Submit" onclick="submitExam()">
</form>

  <div id="result" style="display: none;">
    <h2>Result:</h2>
    <p id="score"></p>
    <h3>Correct Answers:</h3>
    <ul id="correctAnswers"></ul>
  </div>
</div>

<script>
```

20MCA133 Web Programming Lab Record

```
function submitExam() {  
    // Questions and Correct Answers  
    const correctAnswers = {  
        q1: 'Hypertext Markup Language',  
        q2: 'Tim Berners-Lee',  
        q3: 'an empty tag',  
    };  
  
    // Get user's answers  
    const userAnswers = {  
        q1: document.querySelector('input[name="q1"]:checked').value,  
        q2: document.querySelector('input[name="q2"]:checked').value,  
        q3: document.querySelector('input[name="q3"]:checked').value,  
    };  
  
    // Calculate score  
    let score = 0;  
    for (const question in correctAnswers) {  
        if (correctAnswers[question] === userAnswers[question]) {  
            score++;  
        }  
    }  
  
    // Display result  
    document.getElementById('score').innerText = `Score: ${score} out of 3`;  
    const correctAnswersList = document.getElementById('correctAnswers');  
    correctAnswersList.innerHTML = "";  
  
    for (const question in correctAnswers) {  
        const li = document.createElement('li');  
        li.innerHTML = `Question ${question.slice(1)}: ${correctAnswers[question]}`;  
        correctAnswersList.appendChild(li);  
    }  
  
    // Show result div  
    document.getElementById('result').style.display = 'block';  
}  
</script>  
</body>  
</html>
```

OUTPUT:

General Quiz

1.Which city is known as pink city of India?

☒ Jaipur ☐ Bangalore ☐ Kochi

2. Who is the first computer programmer?

☒ Ada Lovelace ☐ Tim Berners-Lee ☐ Brendan Eich

3.Capital of UP:

☐ Lucknow ☒ Kanpur ☐ not in choice.

Result:

Score: 2 out of 3

Correct Answers:

- **Question 1:** Hypertext Markup Language
- **Question 2:** Tim Berners-Lee
- **Question 3:** an empty tag

