

PROGRAM NO: 3


AIM: CREATE A HTML PAGE WITH DIFFERENT TYPES OF FRAMES SUCH AS FLOATING FRAME, NAVIGATION FRAME & MIXED FRAME.

frames.html

```
<html>
<body>
  <a href="frames.html" target="two">navigation frames</a><br>
  <a href="floatingframe.html" target="two">floating frames</a><br>
  <a href="noframe.html" target="two">no frames</a><br>
  <a href="mixedframe.html" target="two">mixed frame</a><br>
</body>
</html>
```

floatingframe.html

```
<html>
<body>
  <p> explanation: there is a problem with the page you are trying to reach and it cannot be displayed.
  try the following: *refresh page"search for the page again by clicking the refresh button. the timeout
  may have occurred due to internet congestion. *check spelling: check that you typed the webpage
  address correctly. the address may have been mistyped.* access from a link: if there is a link to the
  page you are looking for, try accessing the page from the link. if you are still not able to view the
  requested page, try contacting you<br>
  <iframe src="bb.gif" height="100" width="100">
</iframe>
  <iframe src="frames.html" height="50%" width="50%">
</iframe>
</body>
</html>
```



mixedframe.html

```
<html>
  <frameset cols="30%,*">
    <frame src="pic.jpeg"></frame>
  </frameset>
  <frameset rows="50%,*">
    <frame src="video.gif" autostart="true">
    <frame src="Q3.jpeg">
  </frameset>
</frameset>
</html>
```

OUTPUT

explanation: there is a problem with the page you are trying to reach and it cannot be displayed. try the following: *refresh page* search for the page again by clicking the refresh button. the timeout may have occurred due to internet congestion. *check spelling: check that you typed the webpage address correctly. the address may have been mistyped.* access from a link: if there is a link to the page you are looking for, try accessing the page from the link. if you are still not able to view the requested page, try contacting you

navigation frames
floating frames
no frames
mixed frame



navigation frames
floating frames
no frames
mixed frame

R.S

PROGRAM NO: 4

**AIM: ANALYZE CSS BY APPLYING THE DIFFERENT STYLES USING
INLINE, EXTERNAL & INTERNAL STYLE SHEETS IN A HTML FILE.**

```
css.html
<html>
  <head>
    <title>CSS</title>
    <style>
      h1 {
        font size:20;
        color:red;
        font family:'Times New Roman';
      }
      p {
        font size:10;
        color:green;
        font family:'Calibri';
      }
    </style>
    <link rel="stylesheet" href="style.css">
  </head>
  <body>
    <h1>INTERNAL STYLING USING CSS</h1>
    <p>This is an example of internal stylesheet.</p>
    <h1 style="font size:20; color:blue; font family:'Verdana';">INLINE STYLING USING
CSS</h1>
    <p style="font size:10; color:black; font family:'Calibri';">This is an example of inline
stylesheet.</p>
    <h2>EXTERNAL STYLING USING CSS</h2>
    <p>This is an example of external stylesheet.</p>
  </body>
</html>
```

```
style.css
body {
  background-color:yellow
}
```

OUTPUT

INTERNAL STYLING USING CSS

This is an example of internal stylesheet.

INLINE STYLING USING CSS

This is an example of inline stylesheet.

EXTERNAL STYLING USING CSS

This is an example of external stylesheet.

R.S

PROGRAM NO: 5**AIM: CREATE A REGISTRATION FORM USING HTML.**

```
<html>
<head>
<title>Registration Form</title>
<style>
body {
    font-family: Arial, sans-serif;
    background-color: gray;
    margin: 0;
    padding: 0;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}
.container {
    background-color: lightblue;
    padding: 50px;
    border-radius: 8px;
    box-shadow: 0px 0px 10px 0px rgba(0, 0, 0, 0.1);
}
.form-group {
    margin-bottom: 20px;
}
.form-group label {
    display: block;
    font-weight: bold;
    margin-bottom: 5px;
}
```

```

.form-group input[type="text"],
.form-group input[type="email"],
.form-group input[type="password"] {
    width: 100%;
    padding: 8px;
    font-size: 16px;
    border: 1px solid #ccc;
    border-radius: 4px;
}

.form-group input[type="submit"] {
    background-color: #4caf50;
    color: red;
    border: none;
    padding: 10px 20px;
    cursor: pointer;
    border-radius: 4px;
}

.form-group input[type="submit"]:hover {
    background-color: #45a049;
}

```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h2 style="color:red;">Registration Form</h2>
```

```
<form action="hi.html" method="get">
```

```
<div class="form-group">
```

```
<label for="username">Username:</label>
```

```
<input type="text" id="username" name="username" required>
```

```
</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="password">Password:</label>
```

```
<input type="password" id="password" name="password" required>
```

```
</div>
```

```
<div class="form-group">
```

```
<input type="submit" value="Register">
```

```
</div>
```

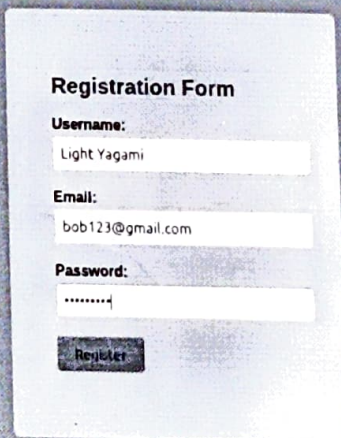
```
</form>
```

```
</div>
```

```
</body>
```

```
</html>
```

OUTPUT



Registration Form

Username:
Light Yagami

Email:
bob123@gmail.com

Password:

Register

R.S

PROGRAM NO: 6

AIM: CREATE AN HTML PAGE TO EXPLAIN THE USE OF VARIOUS PREDEFINED FUNCTIONS IN A STRING AND MATH OBJECT IN JAVASCRIPT.

```
<html>
<head>
<title>Javascript string and math objects</title>
<style>
body {
font-family:arial, sans-serif;
padding:20px;
}
.code {
background-color: lightblue;
padding:10px;
border-radius:5px;
margin-bottom:10px;
}
</style>
<head>
<body>
<h1>JavaScript and Math Objects</h1>
<h2>String Object</h2>
<div class="code">
<h3>String Length</h3>
<pre>
<code>
var str1="Hello";
var str2="world";
var result=str1.concat(", ",str2,"!");
```



```
console.log("Concatenated String:"+result);
</code>
</pre>
<!--Add more string object functions as needed -->
</div>
<h2>Math object</h2>
<div class="code">
<h3>Random Number</h3>
<pre>
<code>
var randomnumber=math.random();
console.log("random number between 0 and 1:"+randomnumber);
</code>
</pre>
<h3>Round a number</h3>
<pre>
<code>
var number=3.14159;
var roundednumber=math.round(number);
console.log("rounded number:"+roundednumber);
</code>
</pre>
<!--Add more math object functions as needed-->
</div>
<!--Add more explanations and examples as needed-->
</body>
</html>
```

OUTPUT

JavaScript and Math Objects

String Object

String Length

```
var str1="Hello";  
var str2="world";  
var result=str1.concat(" "+str2,"!");  
console.log("Concatenated String:"+result);
```

Math object

Random Number

```
var randomnumber=math.random();  
console.log("random number between 0 and 1:"+randomnumber);
```

Round a number

```
var number=3.14159;  
var roundednumber=math.round(number);  
console.log("rounded number:"+roundednumber);
```

R.S

PROGRAM NO: 7**AIM: GENERATE A CALENDAR USING JAVASCRIPT CODE BY GETTING YEAR FROM THE USER.**

```
<html>

<head>

<title>Calendar</title>

<style>

    table {

        width: 80%;

        border-collapse: collapse;

        margin: 0 auto;

    }

    th,td {

        border: 1px solid black;

        padding: 15px;

        text-align: center;

        font-size: 16px;

    }

    th {

        background-color: lightblue;

    }

</style>

</head>

<body>

<h2>Enter Year to Generate Calendar:</h2>

<input type="number" id="yearInput">

<button onclick="generateCalendar()">Generate Calendar</button>

<h2 id="calendarYear">Calendar for <span id="displayYear"></span>

</h2>

<div id="calendar"></div>
```

```
<script>
```

```
function generateCalendar() {
    var year = document.getElementById("yearInput").value;
    var calendarYearHeading = document.getElementById("calendarYear");
    calendarYearHeading.textContent = "Calendar for " + year;
    var calendar = " < table > ";
    for (var month = 0; month < 12; month++) {
        calendar += " < tr > < th colspan = '7' > " + getMonthName(month) + " < /th> < /tr>";
        calendar += " < tr > < th > Sun < /th> < th > Mon < /th> < th > Tue < /th> < th > Wed <
/th> < th > Thu < /th> < th > Fri < /th> < th > Sat < /th> < /tr> < tr > ";
        var daysInMonth = new Date(year, month + 1, 0).getDate();
        var firstDay = new Date(year, month, 1).getDay();
        for (var i = 0; i < firstDay; i++) {
            calendar += " < td > < /td>";
        }
        for (var day = 1; day <= daysInMonth; day++) {
            calendar += " < td > " + day + " < /td>";
            if (new Date(year, month, day).getDay() === 6) {
                calendar += " < /tr> < tr > ";
            }
        }
        calendar += "< /tr>";
    }
    calendar += " < /table>";
    document.getElementById("calendar").innerHTML = calendar;
}

function getMonthName(monthIndex) {
    var monthNames = ["Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct",
"Nov", "Dec"];
    return monthNames[monthIndex];
}
```

```
</script>
```

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

OUTPUT

Enter Year to Generate Calendar:

2024

Generate Calendar

Calendar for 2024

Jan						
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	31			
Feb						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3

R.S

PROGRAM NO: 8**AIM: CREATE AN HTML REGISTRATION FORM AND VALIDATE THE FORM USING JAVASCRIPT CODE.**


```

<html>
<head>
<title>Registration Form </title>
<style>
.error {
  color: red;
}
.container {
  background-color: gray;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
}
.form-container {
  background-color: lightblue;
  text-align: left;
  padding: 20px;
  border: 1px solid #ccc;
  border-radius: 5px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}
.form-container label,
.form-container input {
  display: block;
  margin-bottom: 10px;
}
.form-container button {
  background-color: red;
  color: white;
  padding: 10px 20px;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
</style>
</head>
<body>
<div class="container">
  <div class="form-container">
    <h2>Registration Form</h2>
    <form id="registrationForm">
      <label for="username">Username:</label>
      <input type="text" id="username" name="username" required>
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required>
      <label for="password">Password:</label>

```



```
<input type="password" id="password" name="password" required>
<label for="confirmPassword">Confirm Password:</label>
<input type="password" id="confirmPassword" name="confirmPassword" required>
<button type="submit">Register</button>
</form>
<div id="error-message" class="error"></div>
</div>
</div>
<script>
document.getElementById("registrationForm").addEventListener("submit", function(event) {
    var username = document.getElementById("username").value;
    var email = document.getElementById("email").value;
    var password = document.getElementById("password").value;
    var confirmPassword = document.getElementById("confirmPassword").value;
    var errorMessage = document.getElementById("error-message");
    errorMessage.innerHTML = "";
    if (password !== confirmPassword) {
        errorMessage.innerHTML = "Passwords do not match!";
        event.preventDefault();
    } else if (password.length < 8) {
        errorMessage.innerHTML = "Password must be at least 8 characters long!";
        event.preventDefault();
    } else {
        alert("Registration successful!");
    }
});
</script>
</body>
</html>
```



OUTPUT

Registration Form

Registration Form

Username:
lightyagami

Email:
bob123@gmail.com

Password:
password

Confirm Password:
password

Registration Form

Registration successful!

bob123@gmail.com

Password:
password

Confirm Password:
password

R.S

PROGRAM NO: 9**AIM: CREATE AN HTML PAGE TO CHANGE THE BACKGROUND COLOR FOR EVERY CLICK OF A BUTTON USING JAVASCRIPT EVENT HANDLING.**

```
<html>
  <head>
    <title>Change Background Color</title>
  </head>
  <body>
    <h1>Click the button to change the background color!</h1>
    <button id="colorButton">Change Color</button>
    <script>
      var colorButton = document.getElementById("colorButton");
      function getRandomColor() {
        var letters = '0123456789ABCDEF';
        var color = '#';
        for (var i = 0; i < 6; i++) {
          color += letters[Math.floor(Math.random() * 16)];
        }
        return color;
      }
      colorButton.addEventListener("click", function() {
        var randomColor = getRandomColor();
        document.body.style.backgroundColor = randomColor;
      });
    </script>
  </body>
</html>
```


OUTPUT

Click the button to change the background color!

Change Color

R.S.

PROGRAM NO: 10

AIM: CREATE AN HTML PAGE TO DISPLAY A NEW IMAGE AND TEXT WHEN THE MOUSE COMES OVER THE EXISTING CONTENT IN THE PAGE USING JAVASCRIPT EVENT HANDLING.

```
<html>
<head>
  <title>hover event example</title>
  <style>
    .hover-content {
      display: none;
      text-align: center;
      margin-top: 20px;
    }
    .hovered {
      color: blue;
      cursor: pointer;
    }
  </style>
</head>
<body>
  <h1 class="hovered">hover over this text!</h1>
  <br>
  <div class="hover-content">
    
    <p>this is new content that appears when you hover over the text.</p>
  </div>
  <script>
    var hoverText = document.querySelector('.hovered');
    var hoverContent = document.querySelector('.hover-content');
    hoverText.addEventListener('mouseover', function() {
```

```
    hoverContent.style.display = 'block';  
  });  
  hoverText.addEventListener('mouseout', function() {  
    hoverContent.style.display = 'none';  
  });  
</script>  
</body>  
</html>
```

OUTPUT

hover over this text!



this is new content that appears when you hover over the text.

R.S

PROGRAM NO: 11

AIM: CREATE AN HTML PAGE TO SHOW ONLINE EXAM USING JAVASCRIPT.

```
<html>
<head>
  <title>Online Exam</title>
  <style>
    body {
      font-family: Arial, sans-serif;
    }
    .question {
      margin-bottom: 20px;
    }
    .options {
      margin-bottom: 10px;
    }
    .result {
      font-weight: bold;
      margin-top: 20px;
    }
  </style>
</head>
<body>
  <div class="question">
    <h2>Question 1: What is the capital of France?</h2>
    <div class="options">
      <label>
        <input type="radio" name="question1" value="Paris"> Paris </label>
      <br>
      <label>
        <input type="radio" name="question1" value="London"> London </label>
      <br>
      <label>
        <input type="radio" name="question1" value="Berlin"> Berlin </label>
      <br>
      <label>
        <input type="radio" name="question1" value="Madrid"> Madrid </label>
      <br>
    </div>
  </div>
  <button onclick="calculateScore()">Submit Exam</button>
  <div class="result" id="result"></div>
  <script>
    function calculateScore() {
      var selectedAnswer = document.querySelector('input[name="question1"]:checked');
      if (selectedAnswer) {
        var userAnswer = selectedAnswer.value;
        var correctAnswer = "Paris";
        var resultElement = document.getElementById("result");
        if (userAnswer === correctAnswer) {
```

```
        resultElement.textContent = "Correct! You got it right!";
    } else {
        resultElement.textContent = "Incorrect. The correct answer is Paris.";
    }
    } else {
        alert("Please select an answer before submitting.");
    }
}
</script>
</body>
</html>
```

OUTPUT

Question 1: What is the capital of France?

- ☒ Paris
- ☐ London
- ☐ Berlin
- ☐ Madrid

Submit Exam

Correct! You got it right!

R.S