

EXPERIMENT 6

PROGRAM:

```
<!DOCTYPE html>
<html>
<head>
  <title>Class Selector Example</title>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <h1 class="main-heading">Welcome to Web Development</h1>
  <p class="intro-para">This paragraph is styled using a class selector. It introduces
the
topic.</p>
  <p class="content-para">This is another paragraph with different styling using
another
class.</p>
  <button class="btn-primary">Click Me!</button>
  <button class="btn-secondary">Submit</button>
</body>
</html>
```

styles.css

```
body {
  font-family: Arial, sans-serif;
  background-color: #f5f5f5;
}
.main-heading {
  color: darkgreen;
  text-align: center;
  margin-top: 20px;
}
.intro-para {
  color: navy;
  font-size: 18px;
  padding: 10px;
  background-color: #e0f7fa;
  margin: 20px;
}
.content-para {
  color: maroon;
  font-size: 16px;
  padding: 10px;
  background-color: #ffe0b2;
  margin: 20px;
}
```

```
.btn-primary {
background-color: royalblue;
color: white;
padding: 10px 20px;
border: none;
11
margin: 10px;
border-radius: 5px;
cursor: pointer;
}
.btn-secondary {
background-color: darkorange;
color: white;
padding: 10px 20px;
border: none;
margin: 10px;
border-radius: 5px;
cursor: pointer;
}
```

OUTPUT:

Welcome to Web Development

This paragraph is styled using a class selector. It introduces the topic.

This is another paragraph with different styling using another class.

```
styles.css body { font-family: Arial, sans-serif;
background-color: #f5f5f5; } .main-heading { color: darkgreen;
text-align: center; margin-top: 20px; } .intro-para { color: navy;
font-size: 18px; padding: 10px; background-color: #e0f7fa; margin:
20px; } .content-para { color: maroon; font-size: 16px; padding:
10px; background-color: #ffe0b2; margin: 20px; } .btn-primary {
background-color: royalblue; color: white; padding: 10px 20px;
border: none; 11 margin: 10px; border-radius: 5px; cursor: pointer;
} .btn-secondary { background-color: darkorange; color: white;
padding: 10px 20px; border: none; margin: 10px; border-radius:
5px; cursor: pointer; }
```

EXPERIMENT 7

PROGRAM:

```
<!DOCTYPE html>
<html>
<head>
  <title>Float Positioning Example</title>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
  <div class="box-left">
    <h2>Left Box</h2>
    <p>This box floats to the left side.</p>
  </div>
  <div class="box-right">
    <h2>Right Box</h2>
    <p>This box floats to the right side.</p>
  </div>
</body>
</html>
style.css
body {
  font-family: Arial, sans-serif;
  margin: 20px;
}
.box-left {
  width: 45%;
  float: left;
  background-color: #add8e6;
  padding: 20px;
  margin-right: 5%;
}
.box-right {
  width: 45%;
  float: left;
  background-color: #f08080;
  padding: 20px;
}
/* Clear floats after the floated elements */
```

```
body::after {
  content: "";
  display: table;
  clear: both;
}
```

OUTPUT:

Left Box

This box floats to the left side.

Right Box

12

This box floats to the right side.

```
style.css body { font-family: Arial, sans-serif; margin: 20px; } .box-left {
width: 45%; float: left; background-color: #add8e6; padding: 20px; margin-
right: 5%; } .box-right { width: 45%; float: left; background-color:
#f08080; padding: 20px; } /* Clear floats after the floated elements */
body::after { content: ""; display: table; clear: both; }
```

EXPERIMENT 8

PROGRAM:

```
<!DOCTYPE html>
<html>
<head>
  <title>JavaScript Number Operations</title>
</head>
<body>
  <h1>JavaScript Number Operations</h1>
  <script>
    var num = 1234.56789;
    // Find exponential value
    var exponentialValue = num.toExponential(2);
    // Limit decimal places
    var fixedDecimal = num.toFixed(3);
    // Convert number to string
```

```
var numberToString = num.toString();
// Return negative infinity
var negativeInfinity = Number.NEGATIVE_INFINITY;
// Display outputs
document.write("<h3>Exponential Value (2 digits): " + exponentialValue + "</h3>");
document.write("<h3>Fixed Decimal (3 places): " + fixedDecimal + "</h3>");
document.write("<h3>Number to String: " + numberToString + "</h3>");
document.write("<h3>Negative Infinity: " + negativeInfinity + "</h3>");
</script>
</body>
</html>
```

OUTPUT:

JavaScript Number Operations

Exponential Value (2 digits): 1.23e+3

Fixed Decimal (3 places): 1234.568

Number to String: 1234.56789

Negative Infinity: -Infinity

EXPERIMENT 9

PROGRAM:

```
email_validation.html
<!DOCTYPE html>
<html>
<head>
<title>Email Validation</title>
```

```
<script>
function validateEmail() {
var email = document.getElementById("email").value;
var pattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
if (pattern.test(email)) {
alert("Valid Email Address!");
return true;
} else {
alert("Invalid Email Address! Please enter a valid email.");
return false;
}
}
</script>
</head>
<body>
<h2>Email Validation Form</h2>
<form onsubmit="return validateEmail()">
<label for="email">Enter your Email:</label><br><br>
<input type="text" id="email" name="email" required><br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

OUTPUT:

email_validation.html

Email Validation Form

Enter your Email:

EXPERIMENT 10

PROGRAM

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Background GIF with CSS</title>
  <style>
    body {
      margin: 0;
      padding: 0;
      height: 100vh;
    }
    .background-container {
      background-image: url('your-gif.gif'); /* Use the path to your GIF file */
      background-size: cover; /* Make the background cover the entire screen */
      background-position: center;
      height: 100vh;
      width: 100%;
      transition: opacity 2s ease-in-out; /* Smooth transition for opacity */
      opacity: 0.7; /* Initial transparency */
    }
    /* On hover, change the transparency */
    .background-container:hover {
      opacity: 1; /* Full opacity on hover */
    }
  </style>
</head>
<body>
  16
  <div class="background-container">
    <!-- You can add content here if you wish -->
    <h1 style="color: white; text-align: center; padding-top: 40%;">Welcome to the
Animated
Background!</h1>
  </div>
</body>
</html>
```

OUTPUT:

background_gif.html
