

**Name : Amar Deshmukh**

**Class : AIML-A**

**Roll No : A-10**

**Subject : WAS**

## **Experiment no : 4**

### **1. Display Date**

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Display Date</title>
```

```
<style>
```

```
  body {
```

```
    text-align: center;
```

```
    font-family: Arial, sans-serif;
```

```
    background-color: #f4f4f4;
```

```
    padding: 20px;
```

```
  }
```

```
  .container {
```

```
    background: white;
```

```
    padding: 20px;
```

```
    border-radius: 10px;
```

```
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
    display: inline-block;
```

```
  }
```

```
button {
  background-color: #007bff;
  color: white;
  padding: 10px 20px;
  border: none;
  border-radius: 5px;
  font-size: 16px;
  cursor: pointer;
}
button:hover {
  background-color: #0056b3;
}
input {
  margin-top: 10px;
  padding: 8px;
  font-size: 16px;
  width: 200px;
  text-align: center;
}
</style>
<script>
function displayDate() {
  document.getElementById('dateTextbox').value = new Date().toLocaleDateString();
}
</script>
</head>
<body>
```

```
<div class="container">

  <h2>Display Current Date</h2>

  <button onclick="displayDate()">Show Date</button><br><br>

  <input type="text" id="dateTextbox" readonly placeholder="Date will appear here">

</div>

</body>

</html>
```

## 2. Factorial Calculator:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Factorial Calculator</title>

  <style>

    body {

      text-align: center;

      font-family: Arial, sans-serif;

      background-color: #f8f9fa;

      padding: 20px;

    }

    .container {

      background: white;

      padding: 20px;

      border-radius: 10px;

      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

      display: inline-block;

    }

  </style>

</head>

<body>

  <div class="container">

    <h2>Factorial Calculator</h2>

    <div>

      <input type="text" value="1" />

      <button class="btn btn-primary" type="button">Calculate</button>

    </div>

    <div>

      <div class="text" style="display: inline-block; width: 100px; height: 20px; background-color: #f8f9fa; border: 1px solid #dee2e6; margin-top: 10px;">
```

```
button {  
  background-color: #28a745;  
  color: white;  
  padding: 10px 20px;  
  border: none;  
  border-radius: 5px;  
  font-size: 16px;  
  cursor: pointer;  
}  
button:hover {  
  background-color: #218838;  
}  
</style>  
<script>  
  function calculateFactorial() {  
    let n = prompt("Enter a number:");  
    if (n === null || isNaN(n) || n < 0) return;  
    n = parseInt(n);  
    let factorial = 1;  
    for (let i = 1; i <= n; i++) {  
      factorial *= i;  
    }  
    alert(`Factorial of ${n} is: ${factorial}`);  
  }  
</script>  
</head>  
<body>
```

```
<div class="container">

  <h2>Factorial Calculator</h2>

  <button onclick="calculateFactorial()">Calculate Factorial</button>

</div>
```

```
</body>
```

```
</html>
```

### 3. Multiplication Table:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Multiplication Table</title>

  <style>

    body {

      text-align: center;

      font-family: Arial, sans-serif;

      background-color: #e3f2fd;

      padding: 20px;

    }

    .container {

      background: white;

      padding: 20px;

      border-radius: 10px;

      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

      display: inline-block;

    }

  </style>

</head>

<body>

  <div class="container">

    <h2>Multiplication Table</h2>

    <table border="1">

      <tr>

        <th>1</th>

        <th>2</th>

        <th>3</th>

        <th>4</th>

        <th>5</th>

        <th>6</th>

        <th>7</th>

        <th>8</th>

        <th>9</th>

        <th>10</th>

      </tr>

      <tr>

        <th>1</th>

        <td>1</td>

        <td>2</td>

        <td>3</td>

        <td>4</td>

        <td>5</td>

        <td>6</td>

        <td>7</td>

        <td>8</td>

        <td>9</td>

        <td>10</td>

      </tr>

      <tr>

        <th>2</th>

        <td>2</td>

        <td>4</td>

        <td>6</td>

        <td>8</td>

        <td>10</td>

        <td>12</td>

        <td>14</td>

        <td>16</td>

        <td>18</td>

      </tr>

      <tr>

        <th>3</th>

        <td>3</td>

        <td>6</td>

        <td>9</td>

        <td>12</td>

        <td>15</td>

        <td>18</td>

        <td>21</td>

        <td>24</td>

      </tr>

      <tr>

        <th>4</th>

        <td>4</td>

        <td>8</td>

        <td>12</td>

        <td>16</td>

        <td>20</td>

        <td>24</td>

        <td>28</td>

      </tr>

      <tr>

        <th>5</th>

        <td>5</td>

        <td>10</td>

        <td>15</td>

        <td>20</td>

        <td>25</td>

        <td>30</td>

        <td>35</td>

      </tr>

      <tr>

        <th>6</th>

        <td>6</td>

        <td>12</td>

        <td>18</td>

        <td>24</td>

        <td>30</td>

        <td>36</td>

        <td>42</td>

      </tr>

      <tr>

        <th>7</th>

        <td>7</td>

        <td>14</td>

        <td>21</td>

        <td>28</td>

        <td>35</td>

        <td>42</td>

        <td>49</td>

      </tr>

      <tr>

        <th>8</th>

        <td>8</td>

        <td>16</td>

        <td>24</td>

        <td>32</td>

        <td>40</td>

        <td>48</td>

        <td>56</td>

      </tr>

      <tr>

        <th>9</th>

        <td>9</td>

        <td>18</td>

        <td>27</td>

        <td>36</td>

        <td>45</td>

        <td>54</td>

        <td>63</td>

      </tr>

      <tr>

        <th>10</th>

        <td>10</td>

        <td>20</td>

        <td>30</td>

        <td>40</td>

        <td>50</td>

        <td>60</td>

        <td>70</td>

      </tr>

    </table>

  </div>

</body>

</html>
```

```
button {  
  background-color: #ff9800;  
  color: white;  
  padding: 10px 20px;  
  border: none;  
  border-radius: 5px;  
  font-size: 16px;  
  cursor: pointer;  
}  
button:hover {  
  background-color: #e68900;  
}  
</style>  
<script>  
  function displayMultiplicationTable() {  
    let n = prompt("Enter a number:");  
    if (n === null || isNaN(n)) return;  
    n = parseInt(n);  
    let table = "";  
    for (let i = 1; i <= 10; i++) {  
      table += `${n} * ${i} = ${n * i}\n`;  
    }  
    alert(`Multiplication Table of ${n}:\n\n${table}`);  
  }  
</script>  
</head>  
<body>
```

```
<div class="container">

  <h2>Multiplication Table</h2>

  <button onclick="displayMultiplicationTable()">Show Table</button>

</div>
```

```
</body>
```

```
</html>
```

#### 4. Sum of Numbers:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Sum of Numbers</title>
```

```
  <style>
```

```
    body {
```

```
      text-align: center;
```

```
      font-family: Arial, sans-serif;
```

```
      background-color: #d1c4e9;
```

```
      padding: 20px;
```

```
    }
```

```
    .container {
```

```
      background: white;
```

```
      padding: 20px;
```

```
      border-radius: 10px;
```

```
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
      display: inline-block;
```

```
    }
```

```
button {  
  background-color: #9c27b0;  
  color: white;  
  padding: 10px 20px;  
  border: none;  
  border-radius: 5px;  
  font-size: 16px;  
  cursor: pointer;  
}
```

```
button:hover {  
  background-color: #7b1fa2;  
}
```

```
</style>
```

```
<script>
```

```
function sumNumbers() {  
  let n = prompt("Enter a number:");  
  if (n === null || isNaN(n)) return;  
  n = parseInt(n);  
  let confirmAdd = confirm("Do you want to add another number?");  
  if (confirmAdd) {  
    let additionalNumber = prompt("Enter another number:");  
    if (additionalNumber !== null && !isNaN(additionalNumber)) {  
      n += parseInt(additionalNumber);  
    }  
  }  
  let sum = 0;  
  for (let i = 1; i <= n; i++) {  
    sum += i;  
  }  
}
```



```
    }  
    alert(`Sum of numbers from 1 to ${n} is: ${sum}`);  
  }  
</script>  
</head>  
<body>  
  
  <div class="container">  
    <h2>Sum of Numbers</h2>  
    <button onclick="sumNumbers()">Calculate Sum</button>  
  
  </div>  
</body>  
</html>
```





