

Web Programming Lab

Lab 1

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Q1) Write a simple poem and represent it as a web page. Give a title for the poem. Make rhyming words in the poem as bold.

l1q1.html

```
<html>
<head>
<title> Twinkle Twinkle Rhymes </title>
</head>
<body>
<p> Q1) Twinkle Twinkle Rhymes </p>
<div>
twinkle twinklw little <b>star</b>
<br>
how i wonder what you <b>are</b>
<br>
up above the world so <b>high</b>
<br>
like a diamond in the <b>sky</b>
</div>
</body>
</html>
```

Q1) Twinkle Twinkle Rhymes

twinkle twinklw little **star**
how i wonder what you **are**
up above the world so **high**
like a diamond in the **sky**

Q2) Assume you have brought a new car. Write down the list of additional accessories you need for the car as an unordered list in HTML. Also, list the travel plans on the car as an ordered list.

```
<html>
<head>
<title> Lab1 q1 </title>
</head>
<body>
<div>
<p> New car accessories </p>
<div>
<ul>
<li> car mat </li>
<li> spare key </li>
<li> wind shield </li>
<li> air purifier </li>
</ul>
</div>
<div>
<ol>
<li> Bosnia </li>
<li> Paris </li>
```

New car accessories

- car mat
- spare key
- wind shield
- air purifier

1. Bosnia
2. Paris
3. Rome
4. Venice

```
</li> Rome </li>
</li> Venice </li>
</ol></div>
</div>
</body>
</html>
```

Q3)

l1q3.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Share your Winter Vacation Videos</title>
  <link rel="stylesheet" href="l1q3.css">
</head>
<body>
  <div class="outerdiv">
    <div class="topdiv">
      <p>Share your Travels</p>
    </div>
    <div class="lowerdiv">
      <p>Videos</p>
      <figure class="figurediv">
        <video width="320" height="240" controls>
          <source src="v1.mp4" type="video/mp4">
          Your browser does not support the video tag.
        </video>
        <video width="320" height="240" controls>
          <source src="v2.mp4" type="video/mp4">
          Your browser does not support the video tag.
        </video>
        <video width="320" height="240" controls>
          <source src="v3.mp4" type="video/mp4">
          Your browser does not support the video tag.
        </video>
      </figure>
    </div>
  </div>
</body>
</html>
```

l3q1.css

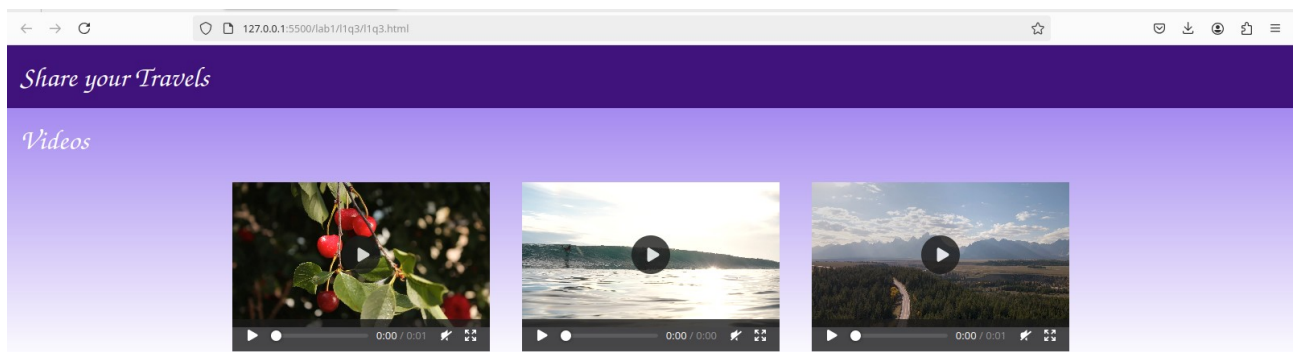
```
*{
  padding: 0;
  margin: 0;
  font-family: "Lucida Handwriting", cursive;
  font-size: 36px;
  color: white;
}
```

```

.outerdiv{
  display: flex;
  flex-direction: column;
}
.topdiv{
  background-color: rgb(64, 18, 124);
  padding: 16px;
}

.lowerdiv{
  background-image: linear-gradient(rgb(165, 138, 240), rgb(255, 255, 255));
  padding: 16px;
}
.lowerdiv p{
}
.figurediv{
  display: flex;
  flex-wrap: wrap;
  justify-content: center;
  align-items: center;
  gap: 40px;
}

```



Q4)

```

l4q1.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>l1q4</title>

```

```
<link rel="stylesheet" href="l1q4.css">
</head>
<body>
  <table>
    <thead>
      <tr>
        <th>County</th>
        <th colspan="2">Population (in crores) </th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td rowspan="4" class="country">INDIA</td>
        <td class="firsttd">98</td>
        <td>85</td>
      </tr>
      <tr>
        <td class="firsttd">1999</td>
        <td>90</td>
      </tr>
      <tr>
        <td class="firsttd">2000</td>
        <td>100</td>
      </tr>
      </tr>
      <tr>
        <td rowspan="4" class="country">USA</td>
        <td class="firsttd">1998</td>
        <td>30</td>
      </tr>
      <tr>
        <td class="firsttd">1999</td>
        <td>35</td>
      </tr>
      <tr>
        <td class="firsttd">2000</td>
        <td>40</td>
      </tr>
      </tr>
      <tr>
        <td rowspan="4" class="country">UK</td>
        <td class="firsttd">1998</td>
        <td>25</td>
      </tr>
      <tr>
        <td class="firsttd">1999</td>
        <td>30</td>
      </tr>
      <tr>
        <td class="firsttd">2000</td>
        <td>35</td>
      </tr>
      </tr>
```

```

        <td class="firsttd">2000</td>
        <td>35</td>
    </tr>
</tr>
</tbody>
</table>
</body>
</html>

```

l1q4.css

```

table, th, td{
    border: 1px solid black;
    border-collapse: collapse;
}

```

```

table{
    width: 60%;
    background-color: rgb(191, 255, 183);
    text-align: right;
}

```

```

th, td{
    padding: 8px;
}

```

```

th{
    background-color: red;
    text-align: center;
}

```

```

.country{
    background-color: rgb(255, 246, 195);
    text-align: center;
}

```

```

.firsttd{
    background-color: rgb(178,
201, 241);
}

```

County	Population (in crores)	
INDIA	98	85
	1999	90
	2000	100
USA	1998	30
	1999	35
	2000	40
UK	1998	25
	1999	30
	2000	35

Q5) Create an array of Javascript objects for the data in question 4 and display each row in the table form through Javascript code.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Table</title>
  <style>
    body {
      display: flex;
      justify-content: center;
      align-items: center;
    }
    table {
      margin: auto;
      width: 60%;
      border-collapse: collapse;

    }
    th, td {
      border: 1px solid #000;
      padding: 8px;
      text-align: center;
      width: fit-content
    }
    thead th {
      background-color: red;
      color: white;
    }
    .country {
      background-color: rgb(228, 255, 175);
    }
    .year {
      background-color: rgb(199, 242, 255);
    }
    .pop {
      background-color: rgb(175, 255, 175);
      color: white;
    }
  </style>
</head>
<body>
  <table id="populationTable">
    <thead>
      <tr>
        <th>Country</th>
        <th colspan="2">Population (in crores)</th>
      </tr>
    </thead>
  </table>
</body>
</html>
```

```

    </tr>
  </thead>
  <tbody>
    <template id="rowTemplate">
      <tr>
        <td class="country"></td>
        <td class="year"></td>
        <td class="population"></td>
      </tr>
    </template>
  </tbody>
</table>

```

```

<script>
const populationData = [
  { country: "India", year: 1998, population: 85 },
  { country: "India", year: 1999, population: 90 },
  { country: "India", year: 2000, population: 100 },
  { country: "USA", year: 1998, population: 30 },
  { country: "USA", year: 1999, population: 35 },
  { country: "USA", year: 2000, population: 40 },
  { country: "UK", year: 1998, population: 25 },
  { country: "UK", year: 1999, population: 30 },
  { country: "UK", year: 2000, population: 35 }
];

const template = document.getElementById("rowTemplate");
const tbody = document.querySelector("#populationTable tbody");

const createTableRows = (countryData) => {
  let countryRowspan = countryData.length;
  countryData.forEach((data, index) => {
    const clone = document.importNode(template.content, true);

    if (index === 0) {
      clone.querySelector(".country").textContent = data.country;
      clone.querySelector(".country").rowSpan = countryRowspan;
    } else {
      clone.querySelector(".country").remove();
    }

    clone.querySelector(".year").textContent = data.year;
    clone.querySelector(".population").textContent = data.population;

    tbody.appendChild(clone);
  });
};

const groupedData = populationData.reduce((acc, currentValue) => {
  (acc[currentValue.country] = acc[currentValue.country] || []).push(currentValue);
  return acc;
}, {});

```

```
Object.values(groupedData).forEach(group => createTableRows(group));
</script>
</body>
</html>
```

Country	Population (in crores)	
India	1998	85
	1999	90
	2000	100
USA	1998	30
	1999	35
	2000	40
UK	1998	25
	1999	30
	2000	35