1. <u>QUESTION</u>

```html
<!DOCTYPE html>
<html>
<head>
  <title>TA Assistance Tracker</title>
</head>
<body>
  <h1>TA Assistance Tracker</h1>

  <form id="assistanceForm">
    <label for="entryInput">Entry:</label>
    <input type="text" id="entryInput">
    <button type="button" onclick="addEntry()">AddEntry</button>
    <button type="button" onclick="showSummary()">Summary</button>
  </form>

  <div id="entriesSection">
    <h2>Entries</h2>
    <ul id="entriesList"></ul>
  </div>

  <div id="summarySection">
    <h2>Summary</h2>
    <p id="summaryText"></p>
  </div>

  <script>
    const entries = [];

    function addEntry() {
      const entryInput = document.getElementById("entryInput").value.trim();
      if (entryInput === "") {
        alert("Invalid entry");
        return;
      }

      const entryParts = entryInput.split(" ");
      if (entryParts.length !== 3) {
        alert("Invalid entry");
        return;
      }

      const directoryId = entryParts[0];
      const description = entryParts[1];
      const duration = entryParts[2];
```

```
      entries.push({
        directoryId: directoryId,
        description: description,
        duration: duration
      });

      document.getElementById("entryInput").value = "";
    }

    function showSummary() {
      const sortedEntries = entries.slice().sort((a, b) => a.duration - b.duration);
      let summary = `Number of entries: ${entries.length}\n\n`;

      sortedEntries.forEach((entry) => {
        summary += `${entry.directoryId} ${entry.description} ${entry.duration}\n`;
      });

      document.getElementById("summaryText").textContent = summary;
    }
  </script>
</body>
</html>
```

/////////////!!!!!!//////////////////////!!! ////////////////////////

1. <u>**QUESTION**</u>

```
<!DOCTYPE html>
<html>
<head>
  <title>Link Table Generator</title>
  <style>
    table {
      border-collapse: collapse;
    }
    th, td {
      border: 1px solid black;
      padding: 5px;
    }
  </style>
</head>
<body>
  <h1>Link Table Generator</h1>
```

```html
<form id="linkForm">
  <label for="startRange">Start Range:</label>
  <input type="text" id="startRange" value="1">

  <label for="endRange">End Range:</label>
  <input type="text" id="endRange" value="1">

  <button type="button" onclick="displayTable()">Generate Table</button>
</form>

<div id="tableSection">
  <h2>Link Table</h2>
  <table id="linkTable"></table>
  <p id="rangeMessage"></p>
</div>

<script>
  let data = ["syllabus.html", "p1.html", "p2.html", "style.html", "email.html", "system.html",
"process.html"];

  function displayTable() {
    const startRangeInput = parseInt(document.getElementById("startRange").value);
    const endRangeInput = parseInt(document.getElementById("endRange").value);

    if (isNaN(startRangeInput) || isNaN(endRangeInput) || startRangeInput < 1 || startRangeInput >
endRangeInput || endRangeInput > data.length) {
      const endRange = data.length;
      document.getElementById("rangeMessage").textContent = `Invalid range, valid range: 1-
${endRange}`;
      document.getElementById("linkTable").innerHTML = "";
      return;
    }

    const linkTable = document.getElementById("linkTable");
    linkTable.innerHTML = "";

    const tableHeader = linkTable.createTHead();
    const headerRow = tableHeader.insertRow();
    const headerCell = headerRow.insertCell();
    headerCell.textContent = "Links";

    const tableBody = linkTable.createTBody();

    for (let i = startRangeInput - 1; i <= endRangeInput - 1; i++) {
      const link = data[i];
```

```
        const row = tableBody.insertRow();
        const cell = row.insertCell();

        const linkElement = document.createElement("a");
        linkElement.href = link;
        linkElement.textContent = link;

        cell.appendChild(linkElement);
      }

      const endRange = data.length;
      document.getElementById("rangeMessage").textContent = `Valid Range: 1-${endRange}`;
    }
  </script>
</body>
</html>
```