

Task No – 5

The screenshot shows a Windows desktop environment. On the left, there is a file explorer window titled 'EXPLORER' showing various files and folders in the 'DOWNLOADS' folder. On the right, there is a code editor window titled 'index1.html' showing the HTML code for a 'Student Management System'. The code includes sections for a form, a table, and a script tag. The status bar at the bottom of the code editor shows 'Ln 26 Col 11 Spaces:4 UTF-8 CRLF {} HTML' and the system tray shows the date and time as '28°C Mostly sunny 4:48 PM'.

```
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Student Management System</title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<h1>Student Management System</h1>
<!-- Form -->
<input type="text" id="name" placeholder="Student Name">
<input type="number" id="age" placeholder="Age">
<button onclick="addStudent()">Add Student</button>
<!-- Table -->
<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
<th>Action</th>
</tr>
</thead>
<tbody id="studentList"></tbody>
</table>
<script src="script.js"></script>
</body>
</html>
```

The screenshot shows the Visual Studio Code interface with the 'style1.css' file open in the editor. The code defines styles for a body, input, button, and table elements, along with a .delete class for a button.

```
# style1.css > ...
body {
    font-family: Arial;
    padding: 20px;
}
input {
    padding: 8px;
    margin: 5px;
}
button {
    padding: 8px 12px;
    cursor: pointer;
}
table {
    width: 50%;
    margin-top: 20px;
    border-collapse: collapse;
}
th, td {
    border: 1px solid #ccc;
    padding: 10px;
    text-align: center;
}
.delete {
    background: red;
    color: white;
}
```

The screenshot shows the Visual Studio Code interface with the 'script.js' file open in the editor. The code contains functions for displaying students from a backend and adding a new student.

```
script.js > ...
// Display students from backend
async function displayStudents() {
    const res = await fetch("http://localhost:3000/students");
    const students = await res.json();

    const list = document.getElementById("studentList");
    list.innerHTML = "";

    students.forEach(student => {
        list.innerHTML += `
            <tr>
                <td>${student.name}</td>
                <td>${student.age}</td>
                <td>
                    <button class="delete" onclick="deleteStudent(${student.id})>Delete</button>
                </td>
            </tr>
        `;
    });
}

// Add student
async function addStudent() {
    const name = document.getElementById("name").value;
    const age = document.getElementById("age").value;

    if (!name || !age) {
        alert("Please fill all fields");
        return;
    }

    await fetch("http://localhost:3000/students", {
        method: "POST",
        headers: { "Content-Type": "application/json" },
        body: JSON.stringify({ name, age })
    });

    document.getElementById("name").value = "";
    document.getElementById("age").value = "";
}
```

The screenshot shows the PyCharm IDE interface. The left sidebar displays a file tree under 'EXPLORER' with various files including 'script.js', 'index1.html', 'style1.css', and several CSV and Excel files. The main editor window contains the 'script.js' code:

```
JS script.js > ...
1  async function displayStudents() {
2      students.forEach(student => {
3          ...
4      });
5  }
6
7  // Add student
8  async function addStudent() {
9      const name = document.getElementById("name").value;
10     const age = document.getElementById("age").value;
11
12     if (!name || !age) {
13         alert("Please fill all fields");
14         return;
15     }
16
17     await fetch("http://localhost:3000/students", {
18         method: "POST",
19         headers: { "Content-Type": "application/json" },
20         body: JSON.stringify({ name, age })
21     });
22
23     document.getElementById("name").value = "";
24     document.getElementById("age").value = "";
25
26     displayStudents();
27 }
28
29 // Delete student
30 async function deleteStudent(id) {
31     await fetch(`http://localhost:3000/students/${id}`, { method: "DELETE" });
32     displayStudents();
33 }
34
35 // Load students on page load
36 displayStudents();
```

The status bar at the bottom indicates 'Ln 51, Col 19' and 'JavaScript'. The system tray shows the date and time as '28°C Mostly sunny 4:48 PM'.

The screenshot shows a web browser window with the URL '127.0.0.1:5500/index1.html'. The page title is 'Student Management System'. It features a form with 'Student Name' and 'Age' input fields, and a 'Add Student' button. Below the form is a table with columns 'Name', 'Age', and 'Action'.

| Name | Age | Action |
|------|-----|--------|
| | | |

Student Management System

Student Name Roll Number Course Save Student

| Roll | Name | Course | Actions |
|------|--------|------------------|-------------|
| 20 | Ravi | Computer Science | Edit Delete |
| 21 | Arjun | Electronics | Edit Delete |
| 22 | Sooraj | Biology | Edit Delete |
| 23 | Raj | Geography | Edit Delete |

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