

01.students.json

```
[
  {
    "studentId": "S001",
    "name": "Kalhara",
    "email": "mail1@mail.com",
    "registered": true,
    "courses": [
      {
        "courseCode": "C001",
        "courseName": "C++",
        "credits": 2
      },
      {
        "courseCode": "C03",
        "courseName": "C#",
        "credits": 3
      },
      {
        "courseCode": "C025",
        "courseName": "OOP",
        "credits": 5
      },
      {
        "courseCode": "C015",
        "courseName": "React",
        "credits": 5
      }
    ]
  },
  {
    "studentId": "S002",
    "name": "Saman",
    "email": "mail2@mail.com",
    "registered": true,
    "courses": [
      {
        "courseCode": "C001",
        "courseName": "C++",
        "credits": 2
      }
    ]
  }
]
```

```

    },
    {
      "courseCode": "C025",
      "courseName": "OOP",
      "credits": 5
    },
    {
      "courseCode": "C015",
      "courseName": "React",
      "credits": 5
    },
    {
      "courseCode": "C015",
      "courseName": "React",
      "credits": 5
    }
  ]
},
{
  "studentId": "S003",
  "name": "Ishara",
  "email": "mail3@mail.com",
  "registered": false,
  "courses": [
    {
      "courseCode": "C025",
      "courseName": "OOP",
      "credits": 5
    },
    {
      "courseCode": "C025",
      "courseName": "OOP",
      "credits": 5
    }
  ]
},
{
  "studentId": "S004",

```

```
    "name": "Saranga",
    "email": "mail4@mail.com",
    "registered": true,
    "courses": {
      "courseCode": "C023",
      "courseName": "SOWA",
      "credits": 3
    }
  },
  {
    "studentId": "S005",
    "name": "Dulara",
    "email": "mail5@mail.com",
    "registered": true,
    "courses": [
      {
        "courseCode": "C022",
        "courseName": "Java",
        "credits": 4
      },
      {
        "courseCode": "C023",
        "courseName": "SOWA",
        "credits": 3
      },
      {
        "courseCode": "C015",
        "courseName": "React",
        "credits": 5
      }
    ]
  }
]
```

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Student Data</title>
  <style>
    table {
      border-collapse: collapse;
      width: 80%;
      margin-bottom: 30px;
    }
    th, td {
      border: 1px solid #333;
      padding: 8px;
    }
    th {
      background-color: #f2f2f2;
    }
    ul {
      padding-left: 18px;
      margin: 0;
    }
  </style>
</head>
<body>

<h2>All Student Details</h2>
<table id="dataTable">
  <thead>
    <tr>
      <th>Student Id</th>
      <th>Name</th>
      <th>Email</th>
      <th>Registered</th>
      <th>Courses</th>
    </tr>
  </thead>
  <tbody></tbody>
</table>

<h2>Registered Student Details</h2>
<table id="dataTable2">
  <thead>
```

```

        <tr>
            <th>Student Id</th>
            <th>Name</th>
            <th>Email</th>
            <th>Registered</th>
            <th>Courses</th>
        </tr>
    </thead>
    <tbody></tbody>
</table>

<h2>More Than 3 Courses Students</h2>
<table id="dataTable3">
    <thead>
        <tr>
            <th>Student Id</th>
            <th>Name</th>
            <th>Email</th>
            <th>Registered</th>
            <th>Courses</th>
        </tr>
    </thead>
    <tbody></tbody>
</table>

<script>
    var xhr = new XMLHttpRequest();
    xhr.open("GET", "students.json", true);

    xhr.onload = function () {
        if (xhr.status === 200) {
            var data = JSON.parse(xhr.responseText);

            var allTable = document.querySelector("#dataTable tbody");
            var registeredTable = document.querySelector("#dataTable2 tbody");
            var moreThan3Table = document.querySelector("#dataTable3 tbody");

            data.forEach(function (student) {

                var courses = Array.isArray(student.courses)
                    ? student.courses
                    : [student.courses];
            });
        }
    };

```

```

var courseList = "<ul>";
courses.forEach(function (course) {
    courseList += "<li>" + course.courseName + "</li>";
});
courseList += "</ul>";

function createRow() {
    var row = document.createElement("tr");
    row.innerHTML =
        "<td>" + student.studentId + "</td>" +
        "<td>" + student.name + "</td>" +
        "<td>" + student.email + "</td>" +
        "<td>" + student.registered + "</td>" +
        "<td>" + courseList + "</td>";
    return row;
}

allTable.appendChild(createRow());

if (student.registered === true) {
    registeredTable.appendChild(createRow());
}

if (courses.length > 3) {
    moreThan3Table.appendChild(createRow());
}
});
}
};

xhr.send();
</script>

</body>
</html>

```

## Output

01.

### All Student Details

Student Id	Name	Email	Registered	Courses
S001	Kalhara	mail1@mail.com	true	<ul style="list-style-type: none"><li>• C++</li><li>• C#</li><li>• OOP</li><li>• React</li></ul>
S002	Saman	mail2@mail.com	true	<ul style="list-style-type: none"><li>• C++</li><li>• OOP</li><li>• React</li><li>• React</li></ul>
S003	Ishara	mail3@mail.com	false	<ul style="list-style-type: none"><li>• OOP</li><li>• OOP</li></ul>
S004	Saranga	mail4@mail.com	true	<ul style="list-style-type: none"><li>• SOWA</li></ul>
S005	Dulara	mail5@mail.com	true	<ul style="list-style-type: none"><li>• Java</li><li>• SOWA</li><li>• React</li></ul>

02.

### Registered Student Details

Student Id	Name	Email	Registered	Courses
S001	Kalhara	mail1@mail.com	true	<ul style="list-style-type: none"><li>• C++</li><li>• C#</li><li>• OOP</li><li>• React</li></ul>
S002	Saman	mail2@mail.com	true	<ul style="list-style-type: none"><li>• C++</li><li>• OOP</li><li>• React</li><li>• React</li></ul>
S004	Saranga	mail4@mail.com	true	<ul style="list-style-type: none"><li>• SOWA</li></ul>
S005	Dulara	mail5@mail.com	true	<ul style="list-style-type: none"><li>• Java</li><li>• SOWA</li><li>• React</li></ul>

03.

### More Than 3 Courses Students

Student Id	Name	Email	Registered	Courses
S001	Kalhara	mail1@mail.com	true	<ul style="list-style-type: none"><li>• C++</li><li>• C#</li><li>• OOP</li><li>• React</li></ul>
S002	Saman	mail2@mail.com	true	<ul style="list-style-type: none"><li>• C++</li><li>• OOP</li><li>• React</li><li>• React</li></ul>