

React Class Assignment:

Let's build a very simple React example where we have a student array of objects (with id, name, mark1, mark2)

Array objects

(id: 1, name: "Alice", mark1: 85, mark2: 90),

(id: 2, name: "Bob", marks: 78, mark2: 65),

(id: 3, name: "Charlie", mark1: 50, mark2: 55),

(id: 4, name: "David", mark1: 95, mark2: 92)

Find the total marks and according to that put the grade and display them in a table with:

Student ID

Student Name

Mark 1

Mark 2

Total Score

Grade

Add some external css for the design

Student.js:

```
import React from "react";
```

```
import "./Student.css";
```

```
const Student = () => {
```

```
  const students = [
```

```
    { id: 1, name: "Alice", marks1: 50, marks2: 67 },
```

```
    { id: 2, name: "Bob", marks1: 65, marks2: 45 },
```

```
{ id: 3, name: "Charlie", marks1: 55, marks2: 65 },  
{ id: 4, name: "David", marks1: 62, marks2: 58 },  
];
```

```
const getGrade = (total) => {  
  if (total >= 140) return "A+";  
  if (total >= 130) return "A";  
  if (total >= 120) return "B";  
  if (total >= 100) return "C";  
  return "F";  
};
```

```
return (  
  <div className="student-container" style={{ margin: "20px" }}>  
    <h2 className="title">Student Marks Table</h2>  
    <table  
      className="student-table"  
      border="1"  
      cellPadding="10"  
      cellSpacing="0"  
    >  
      <thead>  
        <tr style={{ backgroundColor: "#f5f5f5" }}>  
          <th>Student ID</th>  
          <th>Name</th>  
          <th>Marks1</th>
```

```
    <th>Marks2</th>
    <th>Total Scores</th>
    <th>Grade</th>
  </tr>
</thead>
<tbody>
  {students.map((stu) => {
    const total = stu.marks1 + stu.marks2;
    const grade = getGrade(total);

    return (
      <tr key={stu.id}>
        <td>{stu.id}</td>
        <td>{stu.name}</td>
        <td>{stu.marks1}</td>
        <td>{stu.marks2}</td>
        <td>{total}</td>
        <td>{grade}</td>
      </tr>
    );
  })}
</tbody>
</table>
</div>
);
};
```

```
export default Student;
```

Student.css:

```
.student-container {  
  margin: 30px auto;  
  width: 80%;  
  text-align: center;  
  font-family: Arial, sans-serif;  
}
```

```
.title {  
  margin-bottom: 20px;  
  color: darkgreen;  
}
```

```
.student-table {  
  width: 100%;  
  border-collapse: collapse;  
  box-shadow: 0 3px 8px rgba(0, 0, 0, 0.2);  
}
```

```
.student-table th,  
.student-table td {  
  border: 1px solid #ddd;  
  padding: 10px;
```

```
}
```

```
.student-table th {  
  background-color: #4caf50;  
  color: white;  
}
```

```
.student-table tr:nth-child(even) {  
  background-color: #f9f9f9;  
}
```

```
.student-table tr:hover {  
  background-color: #f1f1f1;  
}
```

App.js:

```
import './App.css';  
import Student from './components/Student';
```

```
function App() {  
  return (  
    <div>  
      <Student />  
    </div>  
  );  
}
```

```
export default App;
```