```html
1   <html>
2   <head>
3   <title>The Fair Grader</title>
4   <style>
5     body {
6       background-color: lightgreen;
7     }
8     h1 {
9       text-align: center;
10      color: black;
11    }
12    form {
13      max-width: 800px;
14      margin: auto;
15    }
16    .student-card {
17      border: 1px ;
18      border-radius: 8px;
19      background: white;
20      padding: 15px;
21      margin-bottom: 15px;
22    }
23    .highlight {
24      border: 2px solid green;
25      background-color: #e6ffe6;
26    }
27    label {
28      font-weight: bold;
29      display: block;
30      margin-top: 8px;
31    }
32    input, select {
33
34      border: 1px solid #ccc;
35      border-radius: 4px;
36    }
```

```
37    input[type=range] {
38      width: 100%;
39    }
40    .result {
41      background: ☐white;
42    }
43    button {
44      background: ■#007bff;
45      color: ☐white;
46      cursor: pointer;
47    }
48    footer {
49      text-align: center;
50      background: ☐white;
51    }
52  </style>
53  </head>
54
55  <body>
56  <h1> The Fair Grader</h1>
57  <form id="gradeForm">
58    <div id="inputContainer"></div>
59    <button type="submit">Submit Grades</button>
60  </form>
61
62  <footer>
63    Submitted by <b>Mukund Kuthe</b> <br>
64    Completion Time: <span id="timestamp"></span>
65  </footer>
66
67  <script>
68  var subjects = ["JavaScript", "HTML", "DBMS", "Compiler Design"];
69
```

```javascript
    var students = [
      { name: "Rushi Parhad", roll: 122 },
      { name: "Ravi Kumar Kushwaha", roll: 082 },
      { name: "Kshitij Bhele", roll: 080 }
    ];

    var container = document.getElementById("inputContainer");
    for (var index = 0; index < students.length; index++) {
      var subjectOptions = subjects.sort(function(){return 0.5 - Math.random()})
        .map(function(sub){ return "<option value='" + sub + "'>" + sub + "</option>"; })
        .join("");

      container.innerHTML +=
        '<div class="student-card" id="card' + index + '">' +
          '<label>Student Name:</label>' +
          '<input type="text" value="' + students[index].name + '" readonly>' +

          '<label>Roll Number:</label>' +
          '<input type="number" value="' + students[index].roll + '" readonly>' +

          '<label>Subject 1 Marks (Range):</label>' +
          '<input type="range" min="0" max="100" name="sub1_' + index + '" value="50">' +

          '<label>Subject 2 Marks (Manual Input):</label>' +
          '<input type="number" min="0" max="100" name="sub2_' + index + '">' +

          '<label>Subject 3 (Elective):</label>' +
          '<select name="dropdown_' + index + '">' + subjectOptions + '</select>' +
          '<input type="number" min="0" max="100" name="sub3_' + index + '">' +

          '<div class="result" id="result' + index + '"></div>' +
        '</div>';
    }

  return ((m1 + m2 + m3) / 3).toFixed(2);
}

function getGrade(avg) {
  if (avg >= 90) return "A";
  else if (avg >= 75) return "B";
  else if (avg >= 50) return "C";
  else return "F";
}

function getRemark(avg) {
  switch (true) {
    case (avg >= 90): return "Excellent";
    case (avg >= 75): return "Good";
    case (avg >= 50): return "Needs Improvement";
    default: return "Fail";
  }
}

document.getElementById("gradeForm").addEventListener("submit", function(e) {
  e.preventDefault();

  var maxAvg = -1;
  var topIndex = -1;

  for (var index = 0; index < students.length; index++) {
    var mark1 = +document.querySelector("[name=sub1_" + index + "]").value;
    var mark2 = +document.querySelector("[name=sub2_" + index + "]").value;
    var mark3 = +document.querySelector("[name=sub3_" + index + "]").value;

    if (mark1 < 0 || mark1 > 100 || mark2 < 0 || mark2 > 100 || mark3 < 0 || mark3 > 100 || isNaN(mark2) || isNaN(mark3)) {
      document.getElementById("result" + index).innerHTML = '<span style="color:red;">Invalid marks entered!</span>';
      continue;
```

```
138          }
139
140      var avg = parseFloat(calculateAverage(mark1, mark2, mark3));
141      var grade = getGrade(avg);
142      var remark = getRemark(avg);
143
144      document.getElementById("result" + index).innerHTML =
145        "Average: " + avg + "<br>Grade: " + grade + "<br>Remark: " + remark;
146
147      if (avg > maxAvg) {
148        maxAvg = avg;
149        topIndex = index;
150      }
151    }
152
153    for (var i = 0; i < students.length; i++) {
154      document.getElementById("card" + i).classList.remove("highlight");
155    }
156
157    if (topIndex !== -1) {
158      document.getElementById("card" + topIndex).classList.add("highlight");
159    }
160
161    document.getElementById("timestamp").textContent = new Date().toLocaleString();
162  });
163
164  </script>
165  </body>
166  </html>
```

The Fair Grader

Student Name:
Rushi Parhad

Roll Number:
122

Subject 1 Marks (Range):

Subject 2 Marks (Manual Input):
56

Subject 3 (Elective):
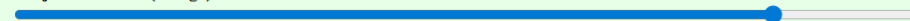DBMS ⌄ 89
Average: 65
Grade: C
Remark: Needs Improvement

Student Name:
Ravi Kumar Kushwaha

Roll Number:
82

Subject 1 Marks (Range):

Subject 2 Marks (Manual Input):
98

Subject 3 (Elective):
JavaScript ⌄ 99
Average: 94
Grade: A
Remark: Excellent

Student Name:

Kshitij Bhele

Roll Number:

80

Subject 1 Marks (Range):

Subject 2 Marks (Manual Input):

40

Subject 3 (Elective):

Compiler Design 69

Average: 45

Grade: F

Remark: Fail

Submit Grades