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Practical No: 4

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Aim: Implementation of Basic Java Script ES5.

Q) Implement a grading system with multiple inputs

### CODE:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0" />
    <title>Grade Calculator</title>
    <link
      href="https://cdn.jsdelivr.net/
npm/tailwindcss@2.2.19/dist/tailwind.min.cs
s"
      rel="stylesheet"
    />
  </head>
  <body class="min-h-screen flex items-
center justify-center p-4">
    <div class="rounded-lg shadow-md p-
6 w-full max-w-md">
      <h1 class="text-2xl font-bold
text-center mb-6">
        Grade Calculator
      </h1>
      <div class="space-y-4">
        <div class="flex flex-col
gap-2">
          <label for="score"
class="block text-sm font-medium mb-1"
            >Enter your score
            (0-100)</label>
          <input
            type="number"
            id="scoreA"
            min="0"
            max="100"
            class="w-full px-4
py-2 border border-gray-300 rounded-md
focus:outline-none"
            placeholder="e.g.
85"
          />
          <input
            type="number"
            id="scoreB"
            min="0"
            max="100"
            class="w-full px-4
py-2 border border-gray-300 rounded-md
focus:outline-none"
          />
        </div>
      </div>
    </div>
  </body>
</html>
```

```

placeholder="e.g.
85"
    />
    <input
        type="number"
        id="scoreC"
        min="0"
        max="100"
        class="w-full px-4
py-2 border border-gray-300 rounded-md
focus:outline-none"
        placeholder="e.g.
85"
    />
</div>

<button
    onclick="calculateGrade
()"
    class="w-full font-
medium py-2 px-4 rounded-md transition
duration-200"
    >
        Calculate Grade
</button>

<div id="result"
class="hidden mt-6 p-4 rounded-md text-
center">
    <h2 class="text-lg
font-semibold mb-2">Your Grade:</h2>
    <div id="grade"
class="text-4xl font-bold"></div>
    <p id="message"
class="mt-2 text-gray-600"></p>
    </div>
</div>

<script>
    function calculateGrade() {
        const scoreInputA =
document.getElementById("scoreA");
        const scoreInputB =
document.getElementById("scoreB");
        const scoreInputC =
document.getElementById("scoreC");
        const resultDiv =
document.getElementById("result");

```

```

const gradeDisplay =
document.getElementById("grade");
const messageDisplay =
document.getElementById("message");

    if (
        !scoreInputA.value ||
        scoreInputA.value < 0
        ||
        scoreInputA.value > 100
        ||
        !scoreInputB.value ||
        scoreInputB.value < 0
        ||
        scoreInputB.value > 100
        ||
        !scoreInputC.value ||
        scoreInputC.value < 0
        ||
        scoreInputC.value > 100
    ) {
        alert("Please enter a
valid score between 0 and 100");
        return;
    }

const score =
    (parseInt(scoreInputA.v
    alue) +
        parseInt(scoreInput
    B.value) +
        parseInt(scoreInput
    C.value)) /
    3;
console.log(score);
let grade, message;

    if (score >= 90) {
        grade = "A";
        message = "Excellent
work!";
    } else if (score >= 80) {
        grade = "B";
        message = "Good job!";
    } else if (score >= 70) {
        grade = "C";
        message = "You
passed!";
    } else if (score >= 60) {

```

```

        grade = "D";
        message = "You barely
passed";
    } else {
        grade = "F";
        message = "You failed.
Try harder next time.";
    }

    gradeDisplay.textContent =
grade;
    messageDisplay.textContent
= message;

    resultDiv.classList.remove(
        "bg-green-100",
        "text-green-800",
        "bg-blue-100",
        "text-blue-800",
        "bg-yellow-100",
        "text-yellow-800",
        "bg-orange-100",
        "text-orange-800",
        "bg-red-100",
        "text-red-800"
    );

    if (grade === "A") {
        resultDiv.classList.add
("bg-green-100", "text-green-800");
    } else if (grade === "B") {
        resultDiv.classList.add
("bg-blue-100", "text-blue-800");
    } else if (grade === "C") {
        resultDiv.classList.add
("bg-yellow-100", "text-yellow-800");
    } else if (grade === "D") {
        resultDiv.classList.add
("bg-orange-100", "text-orange-800");
    } else {
        resultDiv.classList.add
("bg-red-100", "text-red-800");
    }

    resultDiv.classList.remove(
        "hidden");
}
</script>
</body>
</html>

```

## OUTPUT:

Grade Calculator

Enter your score (0-100)

65

98

82

Calculate Grade

Your Grade:

B

Good job!