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Practical No: 4

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Aim:

THEORY:

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
.css"
      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"
    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.value) +
             parseInt(scoreInputB.value) +
             parseInt(scoreInputC.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.";
    }

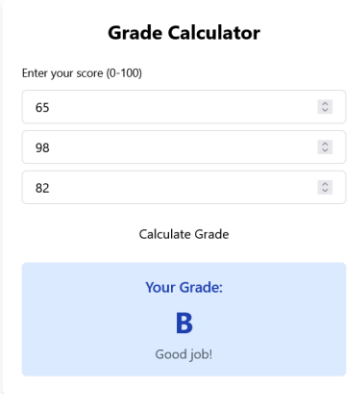
    gradeDisplay.textContent = grade;
    messageDisplay.textContent = message;

    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:



The screenshot shows a web application titled "Grade Calculator". It features a form with three input fields for scores, each with a clear button. The scores entered are 65, 98, and 82. Below the inputs is a "Calculate Grade" button. The result is displayed in a blue box: "Your Grade: B" and "Good job!".

Score	Grade
65	D
98	A
82	C

CONCLUSION: