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

```
placeholder="e.g.
                                                                    const gradeDisplay =
85"
                                                   document.getElementById("grade");
                    />
                                                                    const messageDisplay =
                                                   document.getElementById("message");
                    <input
                        type="number"
                                                                    if (
                        id="scoreC"
                                                                        !scoreInputA.value ||
                        min="0"
                                                                        scoreInputA.value < 0
                        max="100"
                                                    П
                        class="w-full px-4
                                                                        scoreInputA.value > 100
py-2 border border-gray-300 rounded-md
                                                    П
focus:outline-none"
                                                                        !scoreInputB.value ||
                        placeholder="e.g.
85"
                                                                        scoreInputB.value < 0</pre>
                                                    | |
                    />
                                                                        scoreInputB.value > 100
                </div>
                                                    П
                                                                        !scoreInputC.value ||
                <button
                                                                        scoreInputC.value < 0</pre>
                    onclick="calculateGrade
                                                    П
()"
                                                                        scoreInputC.value > 100
                    class="w-full font-
medium py-2 px-4 rounded-md transition
duration-200"
                                                                        alert("Please enter a
                                                   valid score between 0 and 100");
                                                                        return;
                    Calculate Grade
                                                                    }
                </button>
                                                                    const score =
                <div id="result"
class="hidden mt-6 p-4 rounded-md text-
                                                                        (parseInt(scoreInputA.v
center">
                                                   alue) +
                    <h2 class="text-lq
                                                                            parseInt(scoreInput
font-semibold mb-2">Your Grade:</h2>
                                                   B.value) +
                    <div id="grade"
                                                                            parseInt(scoreInput
class="text-4xl font-bold"></div>
                                                   C.value)) /
                    3;
class="mt-2 text-gray-600">
                                                                    console.log(score);
                </div>
                                                                    let grade, message;
            </div>
       </div>
                                                                    if (score >= 90) {
                                                                        grade = "A";
        <script>
                                                                        message = "Excellent
            function calculateGrade() {
                                                   work!";
                                                                    } else if (score >= 80) {
                const scoreInputA =
document.getElementById("scoreA");
                                                                        grade = "B";
                const scoreInputB =
                                                                        message = "Good job!";
document.getElementById("scoreB");
                                                                    } else if (score >= 70) {
                const scoreInputC =
                                                                        grade = "C";
document.getElementById("scoreC");
                const resultDiv =
                                                                        message = "You
                                                   passed!";
document.getElementById("result");
                                                                    } else if (score >= 60) {
```

```
);
                    grade = "D";
                    message = "You barely
passed";
                                                                    if (grade === "A") {
                } else {
                                                                        resultDiv.classList.add
                    grade = "F";
                                                    ("bg-green-100", "text-green-800");
                    message = "You failed.
                                                                    } else if (grade === "B") {
Try harder next time.";
                                                                        resultDiv.classList.add
                                                    ("bg-blue-100", "text-blue-800");
                }
                                                                    } else if (grade === "C") {
                                                                        resultDiv.classList.add
                gradeDisplay.textContent =
                                                    ("bg-yellow-100", "text-yellow-800");
grade;
                messageDisplay.textContent
                                                                    } else if (grade === "D") {
= message;
                                                                        resultDiv.classList.add
                                                    ("bg-orange-100", "text-orange-800");
                resultDiv.classList.remove(
                                                                    } else {
                    "bg-green-100",
                                                                        resultDiv.classList.add
                                                    ("bg-red-100", "text-red-800");
                    "text-green-800",
                                                                    }
                    "bg-blue-100",
                    "text-blue-800",
                                                                    resultDiv.classList.remove(
                    "bg-yellow-100",
                                                    "hidden");
                    "text-yellow-800",
                                                               }
                    "bg-orange-100",
                                                            </script>
                    "text-orange-800",
                                                       </body>
                    "bg-red-100",
                                                    </html>
                    "text-red-800"
```

## **OUTPUT**:

