Name: Abdurrahman Qureshi

Roll No: 242466

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"
```

```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>
    </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: