

1.

```
<!DOCTYPE html>

<html>

<head>

  <title>JavaScript</title>

</head>

<body>

  <h4>Click the Button</h4>

  <button onclick="showPopup()">Button</button>

  <script>

    function showPopup() {

      alert("This is a alert ");

    }

  </script>

</body>

</html>
```

2.

```
<!DOCTYPE html>

<html>

<head>

  <title>Java Script </title>

</head>

<body>

  <h3>Grade Calculator</h3>

  <label for="mark1">Mark 1:</label>

  <input type="number" id="mark1" required><br>

  <label for="mark2">Mark 2:</label>
```

```
<input type="number" id="mark2" required><br>
```

```
<label for="mark3">Mark 3:</label>
```

```
<input type="number" id="mark3" required><br>
```

```
<label for="mark4">Mark 4:</label>
```

```
<input type="number" id="mark4" required><br>
```

```
<label for="mark5">Mark 5:</label>
```

```
<input type="number" id="mark5" required><br>
```

```
<button onclick="calculateGrade()">OK</button>
```

```
<script>
```

```
function calculateGrade() {
```

```
    var mark1 = parseFloat(document.getElementById("mark1").value);
```

```
    var mark2 = parseFloat(document.getElementById("mark2").value);
```

```
    var mark3 = parseFloat(document.getElementById("mark3").value);
```

```
    var mark4 = parseFloat(document.getElementById("mark4").value);
```

```
    var mark5 = parseFloat(document.getElementById("mark5").value);
```

```
    var total = mark1 + mark2 + mark3 + mark4 + mark5;
```

```
    var average = total / 5;
```

```
    alert("SUM is: " + total + "\nAverage is: " + average);
```

```
    if (average > 30) {
```

```
        alert("Congratulations! You passed.");
```

```
    } else {
```

```
        alert("sorry ");
    }
}
</script>
</body>
</html>
```