Module Title:

Internet Technologies

Assignment:

Week 10

Student Name: Aashika Thapa

UWE ID: 28085176

Assignment Submission Date: April 12th , 2024

WEEK 10:

Exercise 1:

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Variable Examples</title>
</head>
<body>

<script>
  var numericValue = 10;
  var floatValue = 10.2523232;
  var stringValue = "I love cats";
  var booleanValue = true;
  document.write("<h2>Numeric Value:</h2>");
  document.write("<p>" + numericValue + "</p>");

  document.write("<h2>Float Value:</h2>");
  document.write("<p>" + floatValue + "</p>");

  document.write("<h2>String Value:</h2>");
  document.write("<p>" + stringValue + "</p>");

  document.write("<h2>Boolean Value:</h2>");
  document.write("<p>" + booleanValue + "</p>");
</script>

</body>
</html>

```

<!DOCTYPE html> <html lang="en">

```
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Variable Examples</title>
</head>
<body>

<script>   var numericValue =
10;   var floatValue =
10.2523232;   var stringValue =
"I love cats";   var booleanValue
= true;
  document.write("<h2>Numeric Value:</h2>");
document.write("<p>" + numericValue + "</p>");

  document.write("<h2>Float Value:</h2>");
document.write("<p>" + floatValue + "</p>");

  document.write("<h2>String Value:</h2>");
document.write("<p>" + stringValue + "</p>");

  document.write("<h2>Boolean Value:</h2>");
document.write("<p>" + booleanValue + "</p>"); </script>

</body>
</html>
```

Output:

Numeric Value:

10

Float Value:

10.2523232

String Value:

I love cats

Boolean Value:

true

Exercise 2:

Source Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Input data</title>
<script>
    function inputData() {
        var name = prompt("Enter Your Name:");
        var id = prompt("Enter Your Student ID:");
        if (name !== null && id !== null) {

            alert("Name: " + name + "\nStudent ID: " + id);
        } else {
            alert("Input canceled. Please provide your name and student ID.");
        }
    }
</script>
</head>
<body>
<button onclick="inputData()">Input Data</button>
</body>
</html>
```

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Input data</title>

<script> function

inputData() { var

name = prompt("Enter

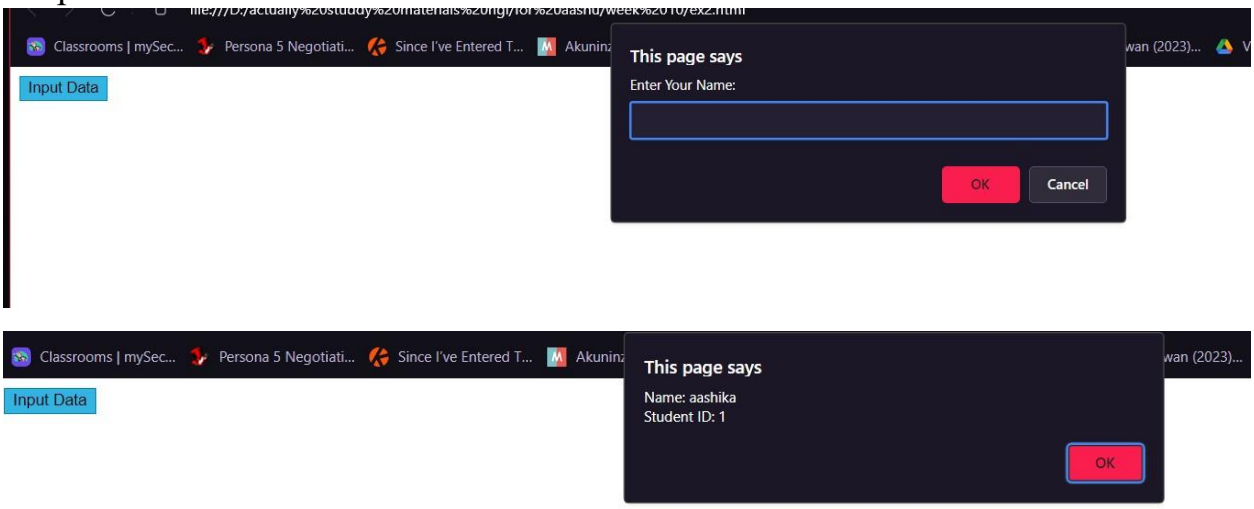
Your Name:"); var

id = prompt("Enter Your

Student ID:"); if

```
(name !== null && id
!== null) {

            alert("Name: " + name + "\nStudent ID: " + id);
        } else {
            alert("Input canceled. Please provide your name and student ID.");
        }
    }
</script>
</head>
<body>
<button onclick="inputData()">Input Data</button>
</body>
</html>
```

Output:



Exercise 3:

Source Code:

```html
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Grade Assigner</title>
    <script>
        function gradeAssigner(){
            var marks = parseFloat(prompt("please enter you're grade: "));
            var grade;
            if(marks >=80 && marks <=100){
                grade = "Distinction";
            }
            else if (marks >=60 && marks < 80){
                grade = "First Division";
            }
            else if (marks >=50 && marks < 60){
                grade = "Second Division";
            }
            else if (marks >=30 && marks < 50){
                grade = "third Division";
            }
            else{
                grade = "Fail";
            }

            alert("You're assigned grade is: " +grade)
        }

    </script>

</head>
<body>
    <h1> Grade Assigner </h1>
    <button onclick="gradeAssigner()">Assign Grade</button>

</body>
</html>
```

<!DOCTYPE html>

<html lang="en">

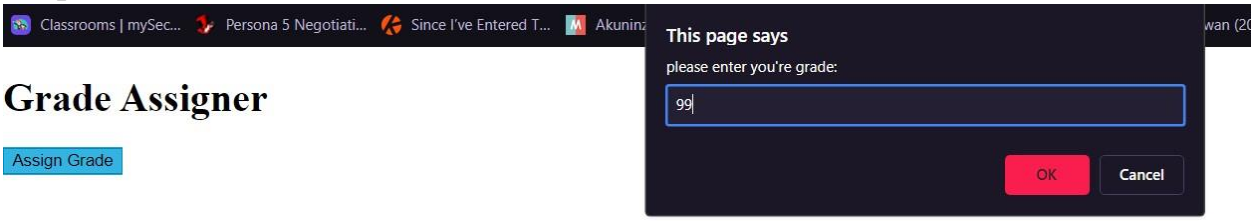
<head>

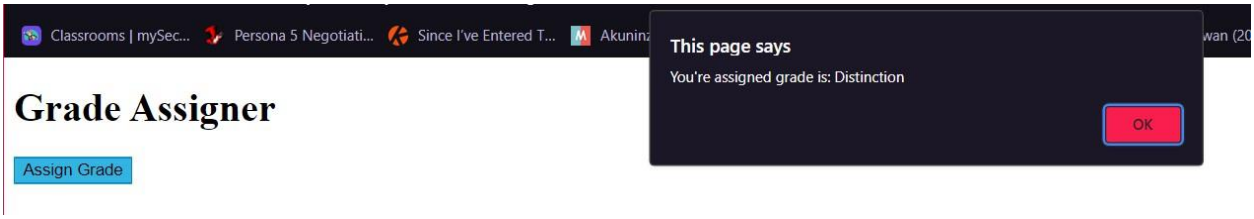
<meta charset="UTF-8">

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Grade Assigner</title>
    <script>
        function gradeAssigner(){
            var marks = parseFloat(prompt("please enter you're grade: "));
var grade;
            if(marks >=80 && marks <=100){
grade = "Distinction";
            }
            else if (marks >=60 && marks < 80){
grade = "First Division";
            }
            else if (marks >=50 && marks < 60){
grade = "Second Division";
            }
            else if (marks >=30 && marks < 50){
grade = "third Division";
            }           else{
grade = "Fail";
            }

            alert("You're assigned grade is: " +grade)
        }
    </script>

</head>
<body>
    <h1> Grade Assigner </h1>
```

```
    <button onclick="gradeAssigner()">Assign Grade</button>

</body>
</html>
```

Output:





Exercise 4:

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Day Switch Case</title>
    <script>
        function daySwitch(){
            var DayNumber = parseInt(prompt("Enter a number between 1 to 7: "));
            var day;
            switch(DayNumber){
                case 1:
                    day = "sunday";
                    break;
                case 2:
                    day = "Monday";
                    break;
                case 3:
                    day = "Tuesday";
                    break;
                case 4:
                    day = "Wednesday";
                    break;
                case 5:
                    day = "Thursday";
                    break;
                case 6:
                    day = "Friday";
                    break;
                case 7:
                    day = "Saturday";
                    break;
            }
            alert("the day is: " +day);
        }
    </script>
</head>
<body>
    <h2> Day Switch Case </h2>
    <button onclick="daySwitch()"> Day Switch Case </button>
</body>
</html>
```

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

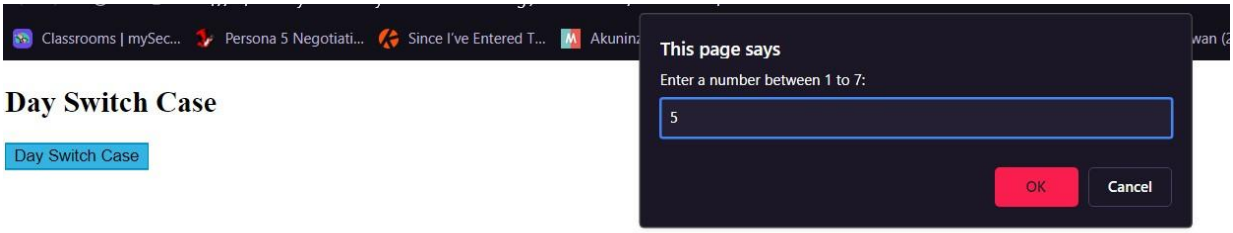
<meta name="viewport" content="width=device-width, initial-scale=1.0">

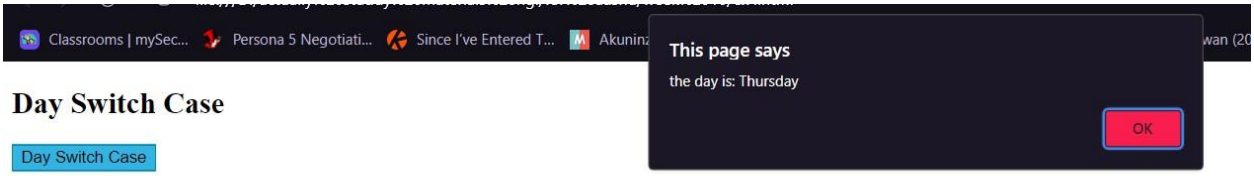
<title>Day Switch Case</title>

<script>

```
    function daySwitch(){
        var DayNumber = parseInt(prompt("Enter a number between 1 to 7: "));
var day;        switch(DayNumber){        case 1:        day =
"sunday";        break;        case 2:
            day = "Monday";
break;        case 3:
day = "Tuesday";
break;        case 4:
            day = "Wednesday";
break;        case 5:
day = "Thursday";
break;        case 6:
day = "Friday";
break;        case 7:
            day = "Saturday";
            break;
        }
        alert("the day is: " +day);
    }
  </script>
</head>
<body>
  <h2> Day Switch Case </h2>
  <button onclick="daySwitch()"> Day Switch Case </button>
</body>
</html>
```

Output:





Exercise 5:

Source Code:

```html
<!DOCTYPE html>
<html>
<head>
    <title>Image Display</title>
</head>
<body>
    <h2>Images</h2>
    <div id="imageList"></div>

    <script>
     var images = ['1.jpg', '2.png', '3.png', '4.jpg'];
     var container = document.getElementById('imageList');

    for (var i = 0; i < images.length; i++) {
    var img = document.createElement('img');
    img.src = images[i];
    container.appendChild(img);
}
    </script>
</body>

</html>
```

<!DOCTYPE html>

<html>

<head>

<title>Image Display</title> </head>

<body>

<h2>Images</h2>

```
    <script>
     var images = ['1.jpg', '2.png', '3.png', '4.jpg'];      var
container = document.getElementById('imageList');

    for (var i = 0; i < images.length; i++) {
var img = document.createElement('img');
img.src = images[i];
container.appendChild(img);
}
    </script>
</body>

</html>
```

Output:

Exercise 6:

Source Code:

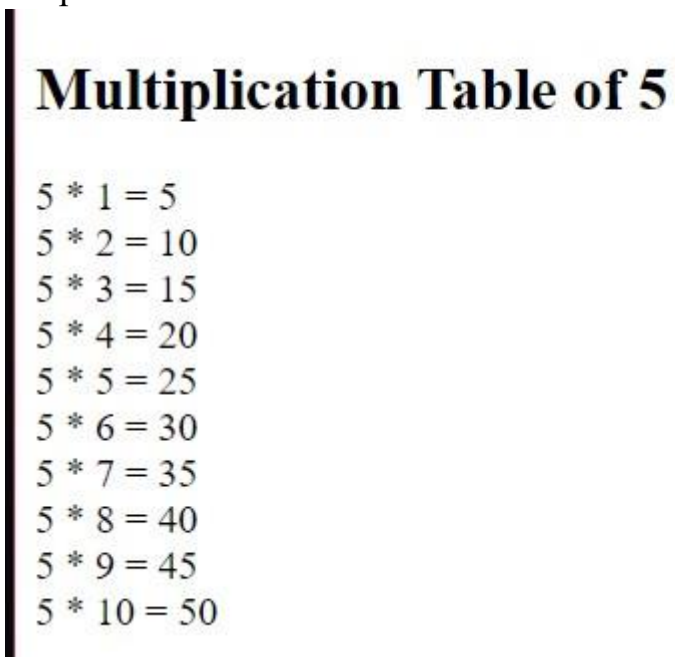
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Multiplication Of 5</title>
</head>
<body>
<h2>Multiplication Table of 5</h2>
<p id="Multiplication"></p>
<script>
let text = "";
for (let i = 1; i <= 10; i++) {
  text += `${5} * ${i} = ${5 * i}<br>`;
}
document.getElementById("Multiplication").innerHTML = text;
</script>

</body>
</html>
```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Multiplication Of 5</title>
</head>
<body>
<h2>Multiplication Table of 5</h2>

<script> let text = ""; for (let i = 1; i
<= 10; i++) { text += `${5} * ${i} =
${5 * i}
`;

```
}
document.getElementById("Multiplication").innerHTML = text;
</script>

</body>
</html>
```

Output:



Exercise 7:

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Table Example</title>
    <style>
        table {
            width: 100%;
            border-collapse: collapse;
        }
        th, td {
            padding: 10px;
            border: 1px solid black;
        }
        tr:nth-child(even) {
            background-color: red;
        }
    </style>
</head>
<body>
    <table id="myTable">
        <thead>
            <tr>
                <th>S.N.</th>
                <th>Name</th>
                <th>Image</th>
            </tr>
        </thead>
        <tbody id="tableBody">
        </tbody>
    </table>
    <script>
    document.addEventListener('DOMContentLoaded', function () {
    const tableBody = document.getElementById('tableBody');

    const data = [
        {sn: 1, name: 'Aashika', image: 'aashika.jpg'},
        {sn: 2, name: 'Kanchana', image: 'Kanchana.jpg'},
        {sn: 3, name: 'Nikita', image: 'Nikita.jpg'},
        {sn: 4, name: 'Sange', image: 'Sange.jpg'},
    ];

    data.forEach(item => {
        const row = document.createElement('tr');
        row.innerHTML = `
            <td>${item.sn}</td>
            <td>${item.name}</td>
            <td>${item.image}</td>
        `;
        tableBody.appendChild(row);
    });
});

    </script>
</body>
</html>
```

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

```
    <title>Table Example</title>
    <style>         table {
width: 100%;              border-
collapse: collapse;
        }         th, td {
padding: 10px;             border:
1px solid black;
        }
        tr:nth-child(even) {
background-color: red;
        }
    </style>
</head>
<body>
    <table id="myTable">
        <thead>
            <tr>
                <th>S.N.</th>
                <th>Name</th>
                <th>Image</th>
            </tr>
        </thead>
        <tbody id="tableBody">
        </tbody>
    </table>
    <script>
    document.addEventListener('DOMContentLoaded', function () {
const tableBody = document.getElementById('tableBody');
```

```
    const data = [
        {sn: 1, name: 'Aashika', image: 'aashika.jpg'},
        {sn: 2, name: 'Kanchana', image: 'Kanchana.jpg'},
        {sn: 3, name: 'Nikita', image: 'Nikita.jpg'},
        {sn: 4, name: 'Sange', image: 'Sange.jpg'},
    ];

    data.forEach(item => {
        const row = document.createElement('tr');
row.innerHTML = `
            <td>${item.sn}</td>
            <td>${item.name}</td>
            <td>${item.image}</td>
        `;
        tableBody.appendChild(row);
    });
});

    </script>
</body>
</html>
```

Output:

S.N.	Name	Image
1	Aashika	aashika.jpg
2	Kanchana	Kanchana.jpg
3	Nikita	Nikita.jpg
4	Sange	Sange.jpg

Exercise 8:

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Join all elements</title>
</head>
<body>
    <h2>Joining of Array Elements</h2>
    <p id="Array"></p>
    <script>
    var colors = ["Messi", "Ronaldo", "Neymar", "Suarez"];
    var result = colors.join(',');
    document.getElementById("Array").innerHTML = result;
    </script>
</body>
</html>
```

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Join all elements</title>

</head>

<body>

<h2>Joining of Array Elements</h2>

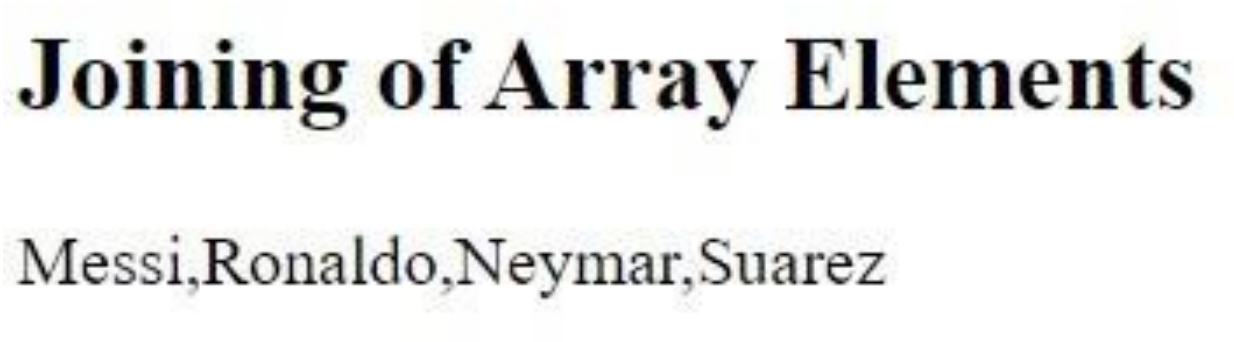
<script>

var colors = ["Messi", "Ronaldo", "Neymar", "Suarez"];

var result = colors.join(',');

```
    document.getElementById("Array").innerHTML = result;
    </script>
</body>
</html>
```

Output:



Exercise 9:

Source Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Something</title>
</head>
<body>
    <h2>Enter Array Elements</h2>
    <label for="arrayInput">Enter integers separated by commas:</label>
    <input type="text" id="arrayInput">
    <button onclick="calculate()">Calculate</button>
    <div id="result"></div>
<script>
  function calculate() {
    var input = document.getElementById("arrayInput").value;
    var integers = input.split(",").map(Number);
    var sum = 0;
    for (var i = 0; i < integers.length; i++) {
      sum += integers[i];
    }
    var product = 1;
    for (var i = 0; i < integers.length; i++) {
      product *= integers[i];
    }
    var resultDiv = document.getElementById("result");
    resultDiv.innerHTML = "<p>Sum: " + sum + "</p>" + "<p>Product: " + product + "</p>";
  }
</script>


</body>
</html>
```

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Something</title>

</head>

<body>

<h2>Enter Array Elements</h2>

```
    <label for="arrayInput">Enter integers separated by commas:</label>
    <input type="text" id="arrayInput">
    <button onclick="calculate()">Calculate</button>
    <div id="result"></div>
<script>
  function calculate() {
    var input = document.getElementById("arrayInput").value;
var integers = input.split(",").map(Number);      var sum = 0;
    for (var i = 0; i < integers.length; i++) {
sum += integers[i];
    }
    var product = 1;
    for (var i = 0; i < integers.length; i++) {
product *= integers[i];
    }
    var resultDiv = document.getElementById("result");
    resultDiv.innerHTML = "<p>Sum: " + sum + "</p>" + "<p>Product: " + product + "</p>";
  }
</script>
</body>
</html>
```

Output:

Enter Array Elements

Enter integers separated by commas: 12, 33 Calculate

Enter Array Elements

Enter integers separated by commas: 12, 33 Calculate

Sum: 45

Product: 396

Exercise 10:

Source Code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Area of Rectangle</title>
</head>
<body>
<h2>Calculate Area of Rectangle</h2>
<p>Enter the length: <input type="text" id="length"></p>
<p>Enter the breadth: <input type="text" id="breadth"></p>
<button onclick="calculateArea()">Calculate Area</button>
<p id="result"></p>
<script>
function calculateArea() {
  var length = document.getElementById("length").value;
  var breadth = document.getElementById("breadth").value;
  var area = length * breadth;
  document.getElementById("result").innerHTML = "The area of the rectangle is: " + area;
}
</script>
</body>
</html>
```

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Area of Rectangle</title>

</head>

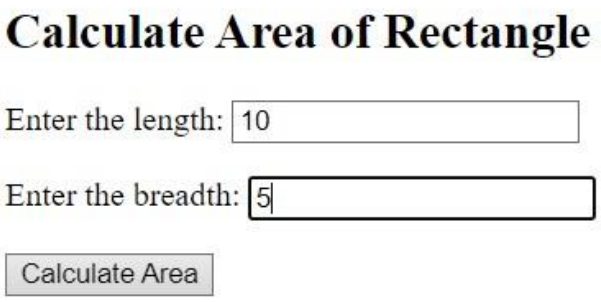
<body>

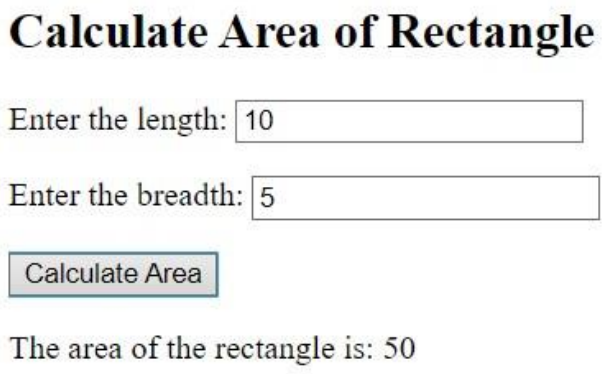
<h2>Calculate Area of Rectangle</h2>

Enter the length: <input type="text" id="length">

```
<p>Enter the breadth: <input type="text" id="breadth"></p>
<button onclick="calculateArea()">Calculate Area</button>
<p id="result"></p>
<script>
function calculateArea() {
  var length = document.getElementById("length").value;
var breadth = document.getElementById("breadth").value;
var area = length * breadth;
  document.getElementById("result").innerHTML = "The area of the rectangle is: " + area;
}
</script>
</body>
</html>
```

Output:





Exercise 11:

Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Array Items Adder</title>
</head>
<body>
<input type="text" id="Something">
<button onclick="AddItem()">Add</button>
<button onclick="DisplayItems()">Display</button>
<ol id="itemsList"></ol>
<script>
    const items = [];

    function AddItem() {
        const input = document.getElementById('Something');
        const value = input.value;

        if (value !== '') {
            items.push(value);
            input.value = '';
        }
    }
    function DisplayItems() {
        const list = document.getElementById('itemsList');
        list.innerHTML = '';
        items.forEach((item, index) => {
            const listItem = document.createElement('li');
            listItem.textContent = `Element ${index} = ${item}`;
            list.appendChild(listItem);
        });
    }
</script>
</body>
</html>
```

<!DOCTYPE html>

```
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Array Items Adder</title>
</head>
<body>
<input type="text" id="Something">
<button onclick="AddItem()">Add</button>
<button onclick="DisplayItems()">Display</button>
<ol id="itemsList"></ol>
<script>     const
items = [];

   function AddItem() {
      const input = document.getElementById('Something');
const value = input.value;

      if (value !== '') {
items.push(value);
input.value = '';
      }
   }
   function DisplayItems() {
      const list = document.getElementById('itemsList');
list.innerHTML = '';         items.forEach((item, index)
=> {
```

```
        const listItem = document.createElement('li');
listItem.textContent = `Element ${index} = ${item}`;
list.appendChild(listItem);
      });
   }
</script>
</body>
</html>
```

Output: