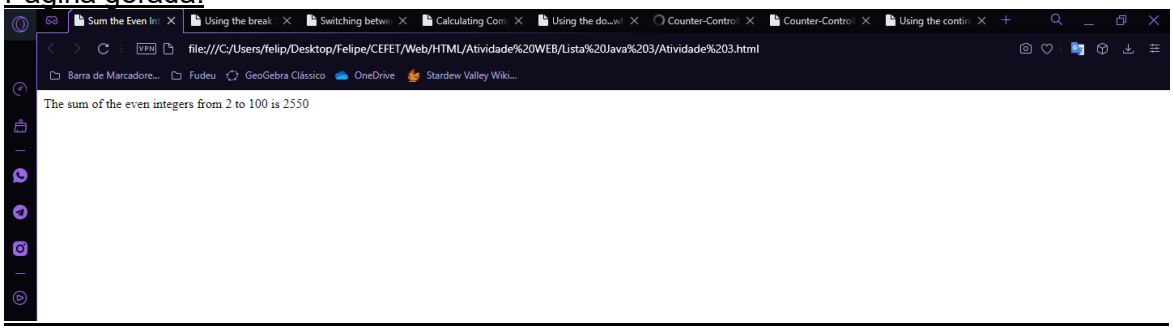
1 – Código:

```
<!DOCTYPE html>
<!-- Fig. 8.1: WhileCounter.html -->
<!-- Counter-controlled repetition. -->
<html>

<head>
    <meta charset="utf-8">
    <title>Counter-Controlled Repetition</title>
    <script>
        var counter = 1; // initialization
        while (counter <= 7) // repetition condition

        {
            document.writeln("<p style = 'font-size: " +
                counter + "ex'>HTML5 font size " + counter + "ex</
p>");

        } //end while
    </script>
</head>

<body></body>

</html>
```

Página gerada:



2 – Código:

```
<!DOCTYPE html>

<!-- Fig. 8.2: ForCounter.html -->
<!-- Counter-controlled repetition with the for statement. -->
<html>

<head>
    <meta charset="utf-8">
    <title>Counter-Controlled Repetition</title>
    <script>
```

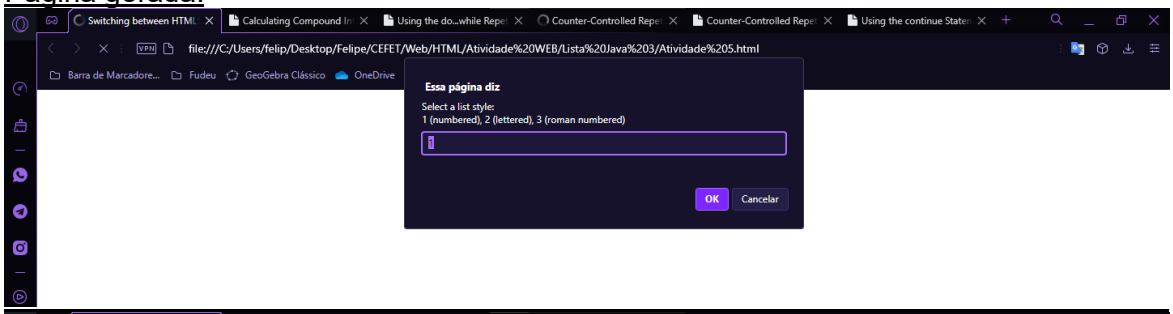
```
        // Initialization, repetition condition and
        // incrementing are all included in the for
        // statement header.
        for (var counter = 1; counter <= 7; ++counter)
            document.writeln("<p style = 'font-size: " +
                counter + "ex'>HTML5 font size " + counter + "ex</
p>");
    </script>
</head>

<body></body>

</html>
```

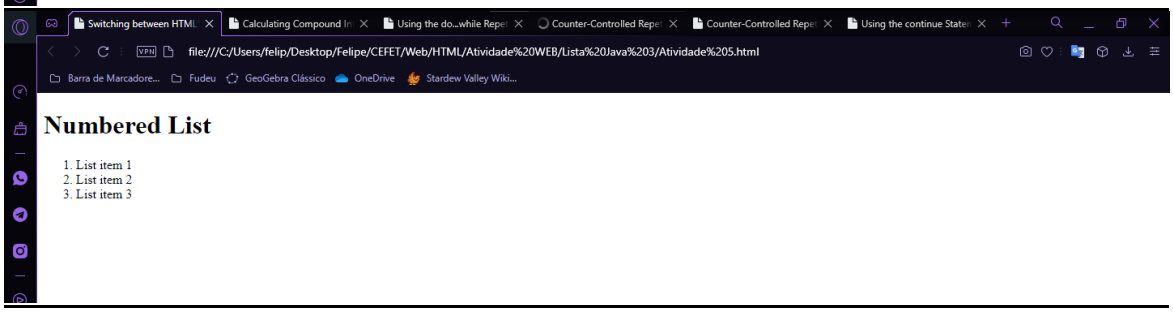
Página gerada:

3 – Código:

```
<!DOCTYPE html>

<!-- Fig. 8.5: Sum.html -->
<!-- Summation with the for repetition structure. -->
<html>

<head>
    <meta charset="utf-8">
    <title>Sum the Even Integers from 2 to 100</title>
    <script>
        var sum = 0;

        for (var number = 2; number <= 100; number += 2)
            sum += number;

        document.writeln("The sum of the even integers " +
            "from 2 to 100 is " + sum);
    </script>
</head>

<body></body>

</html>
```

Página gerada:



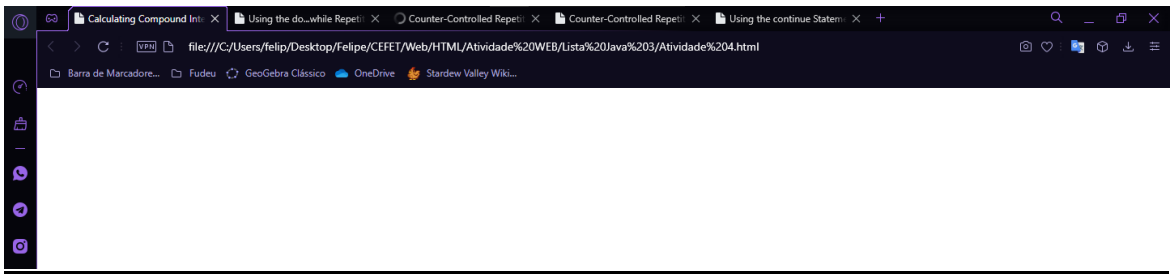


4 – Código:

```
<!DOCTYPE html>
<!-- Fig. 8.6: Interest.html -->
<!-- Compound interest calculation with a for loop. -->
<html>

<head>
    <meta charset="utf-8">
    <title>Calculating Compound Interest</title>
    <style type="text/css">
        table {
            width: 300px;
            border-collapse: collapse;
            background-color: lightblue;
        }

        table,
        td,
        th {
            border: 1px solid black;
            padding: 4px;
        }

        th {
            text-align: left;
            color: white;
            background-color: darkblue;
        }

        tr.oddrow {
```

```
            background-color: white;
        }
    </style>
    <script>
        var amount; // current amount of money
        var principal = 1000.00; // principal amount
        var rate = 0.05; // interest rate
        document.writeln("<table>"); // begin the table
        document.writeln(
            "<caption>Calculating Compound Interest</caption>");
        document.writeln(
            "<thead><tr><th>Year</th>"); // year column heading
        document.writeln(
            "<th>Amount on deposit</th>"); // amount column headin
g
        document.writeln("</tr></thead><tbody>");

        // output a table row for each year

        {
            amount = principal * ;
            if (year % 2 0)
                document.writeln("<tr class='oddrow'><td>" + year
+
                    "</td><td>" + amount.toFixed(2) + "</td></tr>"
);
            else
                document.writeln("<tr><td>" + year +
                    "</td><td>" + amount.toFixed(2) + "</td></tr>"
);
        } //end for

        document.writeln("</tbody></table>");
    </script>
</head>

<body></body>

</html>
```

Página gerada:

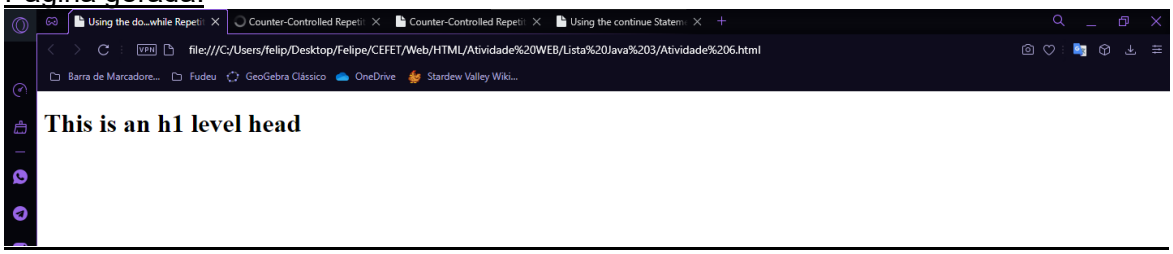


5 – Código:

```
<!DOCTYPE html>
<!-- Fig. 8.7: SwitchTest.html -->
<!-- Using the switch multiple-selection statement. -->
<html>

<head>
    <meta charset="utf-8">
    <title>Switching between HTML5 List Formats</title>
    <script>
        var choice; // user's choice
        var startTag; // starting list item tag
        var endTag; // ending list item tag
        var validInput = true; // true if input valid else false
        var listType; // type of list as a string

        choice = window.prompt("Select a list style:\n" +
            "1 (numbered), 2 (lettered), 3 (roman numbered)", "1")
;

        switch (choice) {
            case "1":
                startTag = "<ol>";
                endTag = "</ol>";
                listType = "<h1>Numbered List</h1>";
                break;
            case "2":

                startTag = "<ol style = 'list-style-type: upper-
alpha'>";
                endTag = "</ol>";
                listType = "<h1>Lettered List</h1>";
                break;
            case "3":

                startTag = "<ol style = 'list-style-type: upper-
roman'>";
                endTag = "</ol>";
```

```
                listType = "<h1>Roman Numbered List</h1>";
                break;
            default:

                validInput = false;
                break;
        } //end switch

        if (validInput === true) {
            document.writeln(listType + startTag);

            for (var i = 1; i <= 3; ++i)
                document.writeln("<li>List item " + i + "</li>");

            document.writeln(endTag);
        } //end if
        else
            document.writeln("Invalid choice: " + choice);
    </script>
</head>

<body></body>

</html>
```

Página gerada:

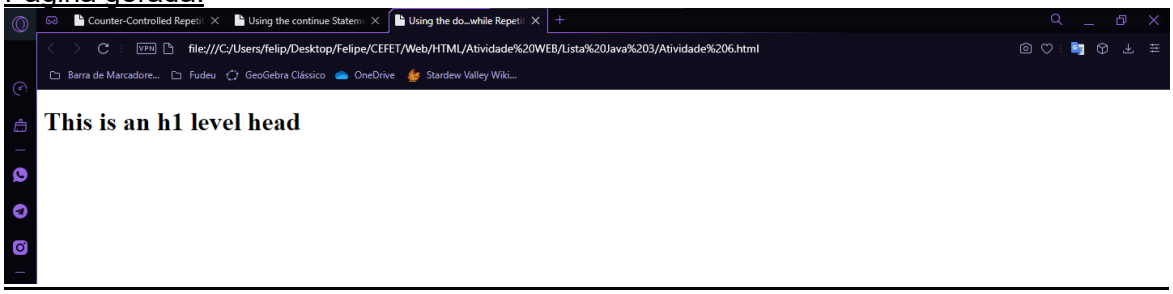


6 – Código:

```
<!DOCTYPE html>

<!-- Fig. 8.9: DoWhileTest.html -->
<!-- Using the do...while repetition statement. -->
<html>

<head>
    <meta charset="utf-8">
    <title>Using the do...while Repetition Statement</title>
    <script>
        var counter = 1;
```

```
        do {
            document.writeln("<h" + counter + ">This is " +
                "an h" + counter + " level head" + "</h" +
                counter + ">");
            ++counter;
        } while (couter <= 6);
    </script>

</head>

<body></body>

</html>
```

Página gerada:

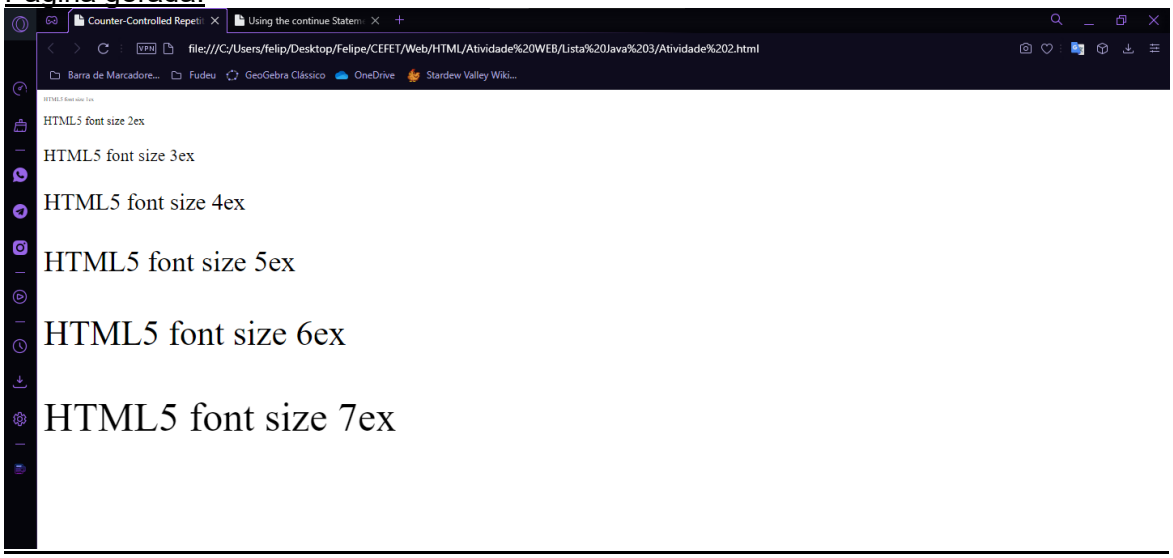


---

7 – Código:

```
<html>

<head>
    <meta charset="utf-8">
    <title>
        Using the break Statement in a for Statement
    </title>
    <script>
        for (var count = 1; count <= 10; ++count) {
            if (count == 5)
                break; // break loop only if count == 5

            document.writeln(count + " ");
        } //end for
        document.writeln(
            "<p>Broke out of loop at count = " + count + "</p>");
    </script>
</head>

<body></body>

</html>
```

Página gerada:



---

8 – Código:

```
<!DOCTYPE html>

<!-- Fig. 8.12: ContinueTest.html -->
<!-- Using the continue statement in a for statement. -->
<html>

<head>
    <meta charset="utf-8">
    <title>
        Using the continue Statement in a for Statement
    </title>

    <script>
        for (var count = 1; count <= 10; ++count) {
            if (count == 5)
                continue; // skip remaining loop code only if coun
t == 5

            document.writeln(count + " ");
        } //end for

        document.writeln("<p>Used continue to skip printing 5</p>"
);
    </script>

</head>

<body></body>

</html>
```

Página gerada: