

1 – Código:

```
<!DOCTYPE html>

<!-- Fig. 7.7: average.html -->
<!-- Counter-controlled repetition to calculate a class average. -
->
<html>

<head>
  <meta charset="utf-8">
  <title>Class Average Program</title>
  <script>
    var total; // sum of grades
    var gradeCounter; // number of grades entered
    var grade; // grade typed by user (as a string)
    var gradeValue; // grade value (converted to integer)
    var average; // average of all grades

    // initialization phase
    total = 0; // clear total
    // prepare to loop
    gradeCounter = 1;
    // processing phase
    while (gradeCounter <= 10) // Loop 10 times
    {

        // prompt for input and read grade from user
        grade = window.prompt("Enter integer grade:", "0");

        // convert grade from a string to an integer
        gradeValue = parseInt(grade);

        // add gradeValue to total
        total = total + gradeValue;

        // add 1 to gradeCounter
        while (gradeCounter <= 10)
    } // end while

    // termination phase
    average = total / 10; // calculate the average

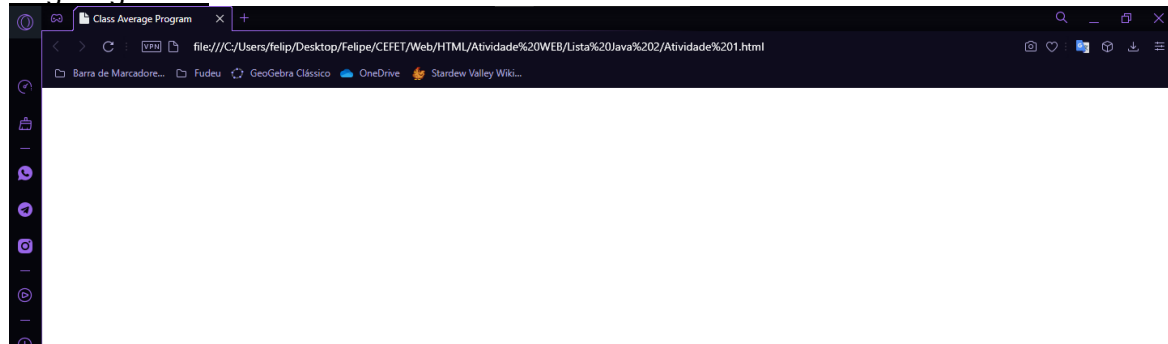
    // display average of exam grades
    document.writeln(
        "<h1>Class average is " + average + "</h1>");
  </script>
```

```
</head>

<body></body>

</html>
```

Página gerada:



2 – Código:

```
<!DOCTYPE html>

<!-- Fig. 7.9: average2.html -->
<!-- Sentinel-
controlled repetition to calculate a class average. -->
<html>

<head>
    <meta charset="utf-8">
    <title>Class Average Program: Sentinel-
controlled Repetition</title>
    <script>
        var total; // sum of grades
        var gradeCounter; // number of grades entered
        var grade; // grade typed by user (as a string)
        var gradeValue; // grade value (converted to integer)
        var average; // average of all grades

        // initialization phase
        total = 0; // clear total
        gradeCounter = 0; // prepare to loop

        // processing phase
        // prompt for input and read grade from user
        grade = window.prompt(
            "Enter Integer Grade, -1 to Quit:", "0");

        // convert grade from a string to an integer
        gradeValue = parseInt(grade);
```

```

while (gradeValue != -1) {
    // add gradeValue to total
    total = total + gradeValue;

    // add 1 to gradeCounter
    gradeCounter = gradeCounter + 1;

    // prompt for input and read grade from user
    grade = window.prompt(
        "Enter Integer Grade, -1 to Quit:", "0");

    // convert grade from a string to an integer
    gradeValue = parseInt(grade);
} // end while

// termination phase
if (gradeCounter != 0) {
    average = total / gradeCounter;

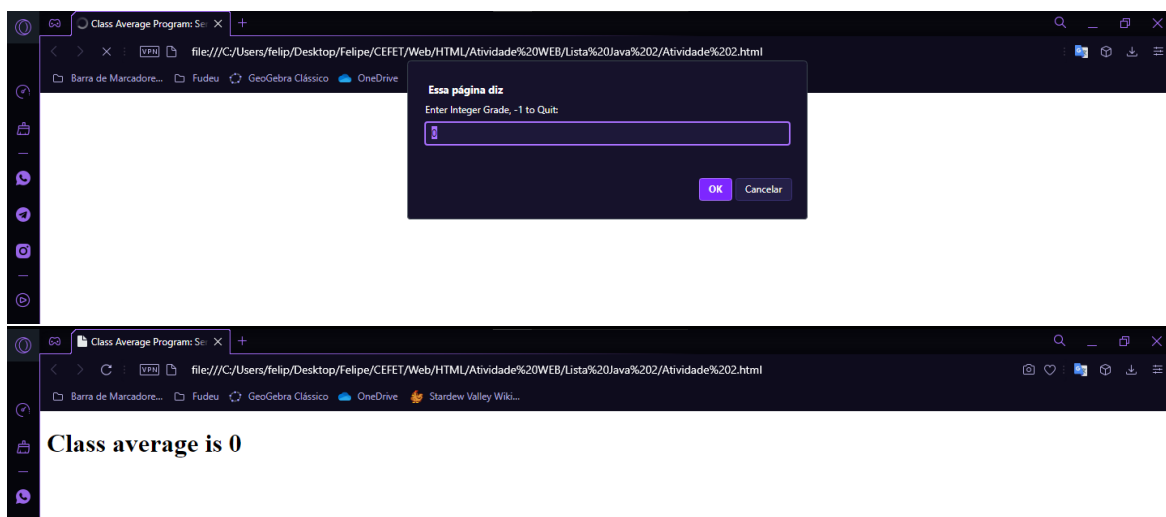
    // display average of exam grades
    document.writeln(
        "<h1>Class average is " + average + "</h1>");
} // end if
else
    document.writeln("<p>No grades were entered</p>");
</script>
</head>

<body></body>

</html>

```

Página gerada:



3 – Código:

```
<!DOCTYPE html>

<!-- Fig. 7.11: analysis.html -->
<!-- Examination-results calculation. -->
<html>

<head>
  <meta charset="utf-8">
  <title>Analysis of Examination Results</title>
  <script>
    // initializing variables in declarations

    var passes = 0; // number of passes
    var failures = 0; // number of failures
    var student = 1; // student counter
    var result; // an exam result
    // process 10 students; counter-controlled loop
    while (student <= 10) {
      result = window.prompt("Enter result (1=pass,2=fail)",
"0");
      if (result == "1")
        passes = passes + 1;
      else
        failures = failures + 1;
      student = student + 1;
    } // end while

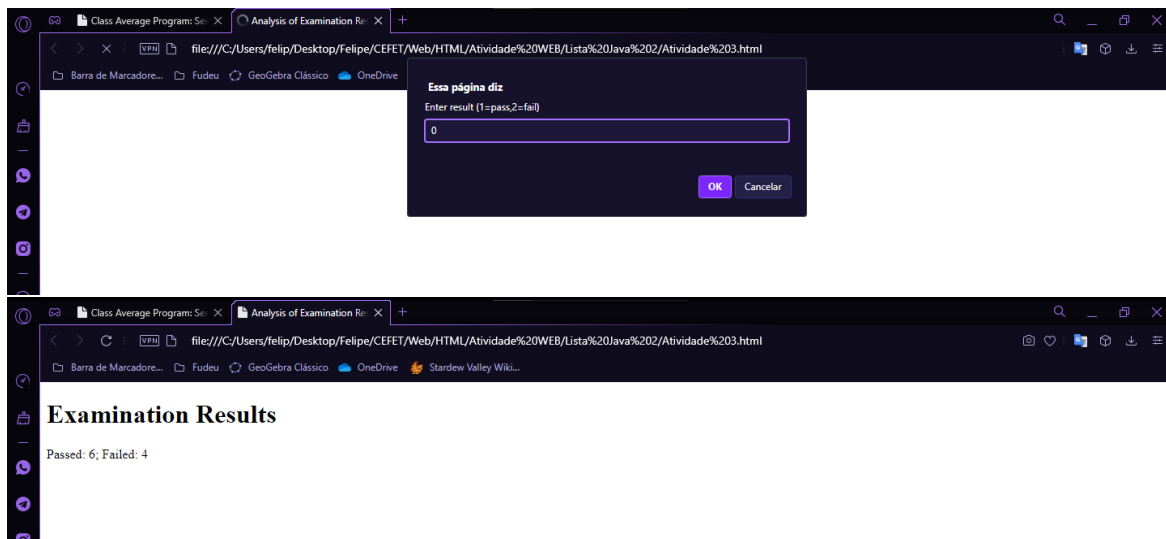
    // termination phase
    document.writeln("<h1>Examination Results</h1>");
    document.writeln("<p>Passed: " + passes +
      "; Failed: " + failures + "</p>");

    if (passes > 8)
      document.writeln("<p>Bonus to instructor!</p>");
  </script>
</head>

<body></body>

</html>
```

Página gerada:



4 – Código:

```
<!DOCTYPE html>

<!-- Fig. 7.14: increment.html -->
<!-- Preincrementing and Postincrementing. -->
<html>

<head>
  <meta charset="utf-8">
  <title>Preincrementing and Postincrementing</title>
  <script>
    var c;

    c = 5;
    document.writeln("<h3>Postincrementing</h3>");
    document.writeln("<p>" + c); // prints 5
    // prints 5 then increments
    document.writeln(" " + );
    document.writeln(" " + c + "</p>"); // prints 6

    c = 5;
    document.writeln("<h3>Preincrementing</h3>");
    document.writeln("<p>" + c); // prints 5
    // increments then prints 6
    document.writeln(" " + );
    document.writeln(" " + c + "</p>"); // prints 6
  </script>
</head>

<body></body>

</html>
```

Página gerada:

