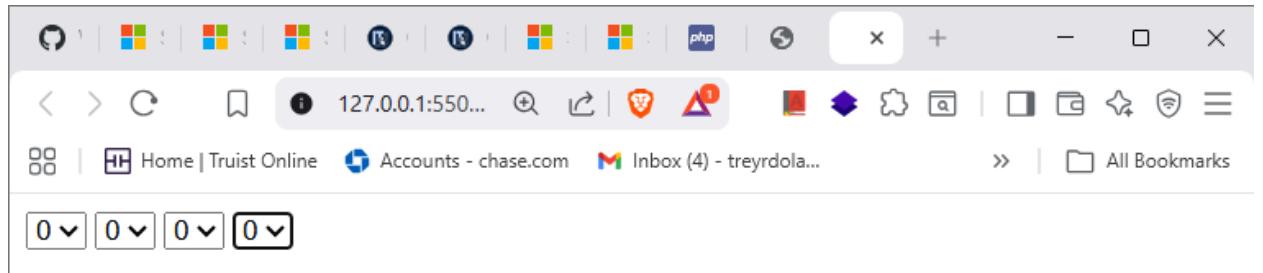


1.

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

2.

```
<!-- we have to create some div sections so we can format them to look like bars later with CSS and change them from not showing at all to showing with our JavaScript-->
<div id="mySelects">
  <select id="n1" onchange="makeBars()"> <!-- very important we give them each an id so we can call them by name later-->
    <option>0</option>
    <option>1</option>
    <option>2</option>
    <option>3</option>
    <option>4</option>
    <option>5</option>
    <option>6</option>
  </select> /#1
  <select id="n2" onchange="makeBars()">
    <option>0</option>
    <option>1</option>
    <option>2</option>
    <option>3</option>
    <option>4</option>
    <option>5</option>
    <option>6</option>
  </select> /#2
  <select id="n3" onchange="makeBars()">
    <option>0</option>
    <option>1</option>
    <option>2</option>
    <option>3</option>
    <option>4</option>
    <option>5</option>
    <option>6</option>
  </select> /#3
  <select id="n4" onchange="makeBars()">
    <option>0</option>
    <option>1</option>
    <option>2</option>
    <option>3</option>
    <option>4</option>
    <option>5</option>
    <option>6</option>
  </select> /#4
</div> /#mySelects
<div id="myChart">
  <div class="bar"></div>
  <div class="bar"></div>
  <div class="bar"></div>
  <div class="bar"></div>
</div> /#myChart
</body>
</html>
```



3.

A screenshot of a code editor (VS Code) showing the file 'm1_makebars.html'. The code is a combination of HTML and JavaScript. It includes a head section with meta tags and a title. A script block contains a function 'makeBars()' which uses document.getElementById to get the first div with id 'n1'. It then creates a variable 'val1' from the selected index of a dropdown menu. It loops through other dropdown menus to create an array 'valArray' containing values from all dropdowns. It then loops through the array to set the height and left position of divs with class 'bar' based on the values in 'valArray'. The body section contains several dropdown menus with IDs n1, n2, n3, and n4, each with an onchange event that calls the 'makeBars()' function.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Makebars</title>
<script>
    //this is a comment in JavaScript
    //we make a function here in JS that is called with the onchange attribute we typed previously //in the HTML above
    function makeBars() {
        //this references the first div we gave the id n1 and stores in a variable
        var n1 = document.getElementById("n1");

        //this creates a variable val1
        var val1 = n1.options[n1.selectedIndex].text;
        var n2 = document.getElementById("n2");
        var val2 = n2.options[n2.selectedIndex].text;
        var n3 = document.getElementById("n3");
        var val3 = n3.options[n3.selectedIndex].text;
        var n4 = document.getElementById("n4");
        var val4 = n4.options[n4.selectedIndex].text;
        var valArray = [val1, val2, val3 ,val4]
        //alert (valArray);
        //the references all the divs we made in the body with the class bar
        var barArray= document.getElementsByClassName("bar");
        //alert(barArray.length);
        for(var i=0;i<valArray.length;i++) {
            barArray[i].style.height=(valArray[i]*40)+'px';
            barArray[i].style.left=(i*25)+'%';
            barArray[i].style.opacity= 0.5';
        }
    }
</script>
</head>
<body>
    <!--we have to create some div sections so we can format them to look like bars later with CSS and change them from not showing at all to showing with our JavaScript-->
    <div id="mySelects">
        <select id="n1" onchange="makeBars()"> <!--very important we give them each an id so we can call them by name later-->
            <option></option>
            <option>1</option>
            <option>2</option>
            <option>3</option>
            <option>4</option>
            <option>5</option>
            <option>6</option>
        </select>/#1
        <select id="n2" onchange="makeBars()">
            <option></option>
            <option>1</option>
            <option>2</option>
            <option>3</option>
            <option>4</option>
            <option>5</option>
            <option>6</option>
        </select>/#2
        <select id="n3" onchange="makeBars()">
            <option></option>
            <option>1</option>
        </select>/#3
    </div>
</body>

```

4.

File Edit Selection ... ← → Q. Module 1 - Overview and Basic CSS & JavaScript

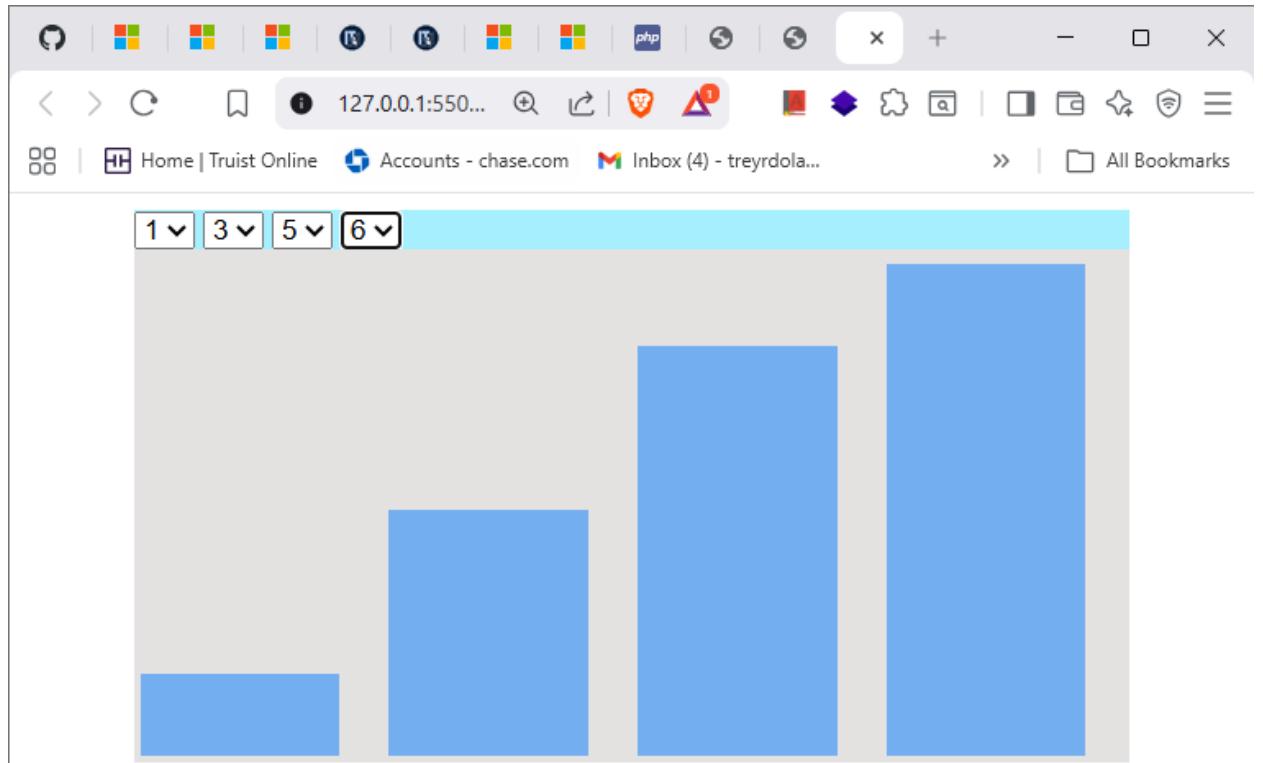
EXPLORER MODULE 1 - OVERVIEW A... m1_makebars.html

- * .hintrc
- * M1_Lecture_Dolan.docx
- m1_makebars.html
- Step 1.png
- Step 2.png
- Step 3.png
- Step 4.png

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Makebars</title>
7      <style>
8
9          /*We start by formatting the divs with the class bar*/
10         .bar {
11             width:20%;
12             height:0px;
13             background-color: #007BFF;
14             margin:3px;
15             position: absolute;
16             bottom:0px;
17             opacity: 0;
18         }
19
20         /*Next we format the outer div with the id mySelects*/
21         #mySelects {
22             position: relative;
23             width:80vw;
24             background-color: #A5EFFF;
25             margin:0 auto;
26         }
27
28         /*Now we format the div with the id myChart*/
29         #myChart {
30             position: relative;
31             width:80vw;
32             height:250px;
33             background-color: #E4E1E1;
34             margin:0 auto;
35         }
36     </style>
37     <script>
38         //this is a comment in JavaScript
39         //we make a function here in JS that is called with the onchange attribute we typed previously //in the HTML above
40         function makeBars() {
41             //this references the first div we gave the id n1 and stores in a variable
42             var n1 = document.getElementById("n1");
43
44             //this creates a variable val
45             var val1 = n1.options[n1.selectedIndex].text;
46             var n2 = document.getElementById("n2");
47             var val2 = n2.options[n2.selectedIndex].text;
48             var n3 = document.getElementById("n3");
49             var val3 = n3.options[n3.selectedIndex].text;
50             var n4 = document.getElementById("n4");
51             var val4 = n4.options[n4.selectedIndex].text;
52             var valArray = [val1, val2, val3 ,val4];
53             //alert (valArray);
54             //the references all the divs we made in the body with the class bar
55             var barArray = document.getElementsByClassName("bar");
56             //alert(barArray.length);
57             for(var i=0;i<valArray.length;i++) {
58                 barArray[i].style.height=(valArray[i]*40)+"px";
59                 barArray[i].style.left=(i*25)+"%";
59             }
59         }
5. 
```

Live Share W3C validation Select Postgres Server Ln 36, Col 13 Spaces: 4 UTF-8 CRLF {} HTML Mobile Share Port: 5500 Prettier



6.

```
m1_makebars.html X
m1_makebars.html > html > head > style > .bar
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Makebars</title>
7      <style>
8
9          /*We start by formatting the divs with the class bar*/
10         .bar {
11             width:20%;
12             height:0px;
13             background-color: #007BFF;
14             margin:3px;
15             position: absolute;
16             bottom:0px;
17             opacity: 0;
18             transition: all 1s;
19         }
20     }
```

7.

The screenshot shows a Microsoft Edge browser window with the following details:

- Address Bar:** Q Module 1 - Overview and Basic CSS & JavaScript
- File Explorer:** Shows files under 'MODULE 1 - OVERVIEW A...' including 'm1_makebars.html', 'Step 1.png' through 'Step 7.png', and 'M1_Lecture_Dolan.docx'.
- Code Editor:** The 'm1_makebars.html' file is open, displaying the following code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Makebars</title>
    <style>
        /*We start by formatting the divs with the class bar*/
        .bar {
            width:20%;
            height:0px;
            background-color: #007BFF;
            margin:3px;
            position:absolute;
            bottom:0px;
            opacity: 0;
            transition: all 1s;
        }
        /*Next we format the outer div with the id mySelects*/
        #mySelects {
            position:relative;
            width:80vw;
            background-color: #A5EFFF;
            margin:0 auto;
        }
        /*Now we format the div with the id myChart*/
        #myChart {
            position:relative;
            width:80vw;
            height:250px;
            background-color: #EAE1E1;
            margin:0 auto;
        }
    </style>
    <script>
        //this is a comment in JavaScript
        //we make a function here in JS that is called with the onchange attribute we typed previously //in the HTML above
        function makeBars() {
            //this references the first div we gave the id n1 and stores in a variable
            var n1 = document.getElementById("n1");

            //this creates a variable val1
            var val1 = n1.options[n1.selectedIndex].text;
            var n2 = document.getElementById("n2");
            var val2 = n2.options[n2.selectedIndex].text;
            var n3 = document.getElementById("n3");
            var val3 = n3.options[n3.selectedIndex].text;
            var n4 = document.getElementById("n4");
            var val4 = n4.options[n4.selectedIndex].text;
            var valArray= [val1, val2, val3 ,val4]
            //alert (valArray);
            //the references all the divs we made in the body with the class bar
            var barArray= document.getElementsByClassName("bar");
            //alert(barArray.length);
            for(var i=0;i<valArray.length;i++) {
                barArray[i].style.height=(valArray[i]*40)+"px";
            }
        }
    </script>

```

The browser interface includes tabs for 'Extension: Polacode' and 'Extension: Code Screenshot'. The status bar at the bottom shows 'Ln 100, Col 31' and other standard browser controls.

