Web Programming Assignment #3

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Web Programming: Assignment No. 3

Q1: Write an HTML code for the below Table, and add link to Wikipedia pages to each city and country (please take help from Lec. 04). You have to produce the below example first, and then add links.

North America

SN	City	US State/Country
1.	Ann Arbor	Michigan
2.	Atlanta	Georgia
3.	Austin	Texas
4.	Boulder	Colorado
5.	Boulder – Pearl Place	Colorado
6.	Boulder – Walnut	Colorado
7.	Cambridge	Massachusetts
8.	Chapel Hill	North Carolina
9.	Chicago – Carpenter	Illinois
10.	Chicago – Fulton Market	Illinois

HTML – Minified version
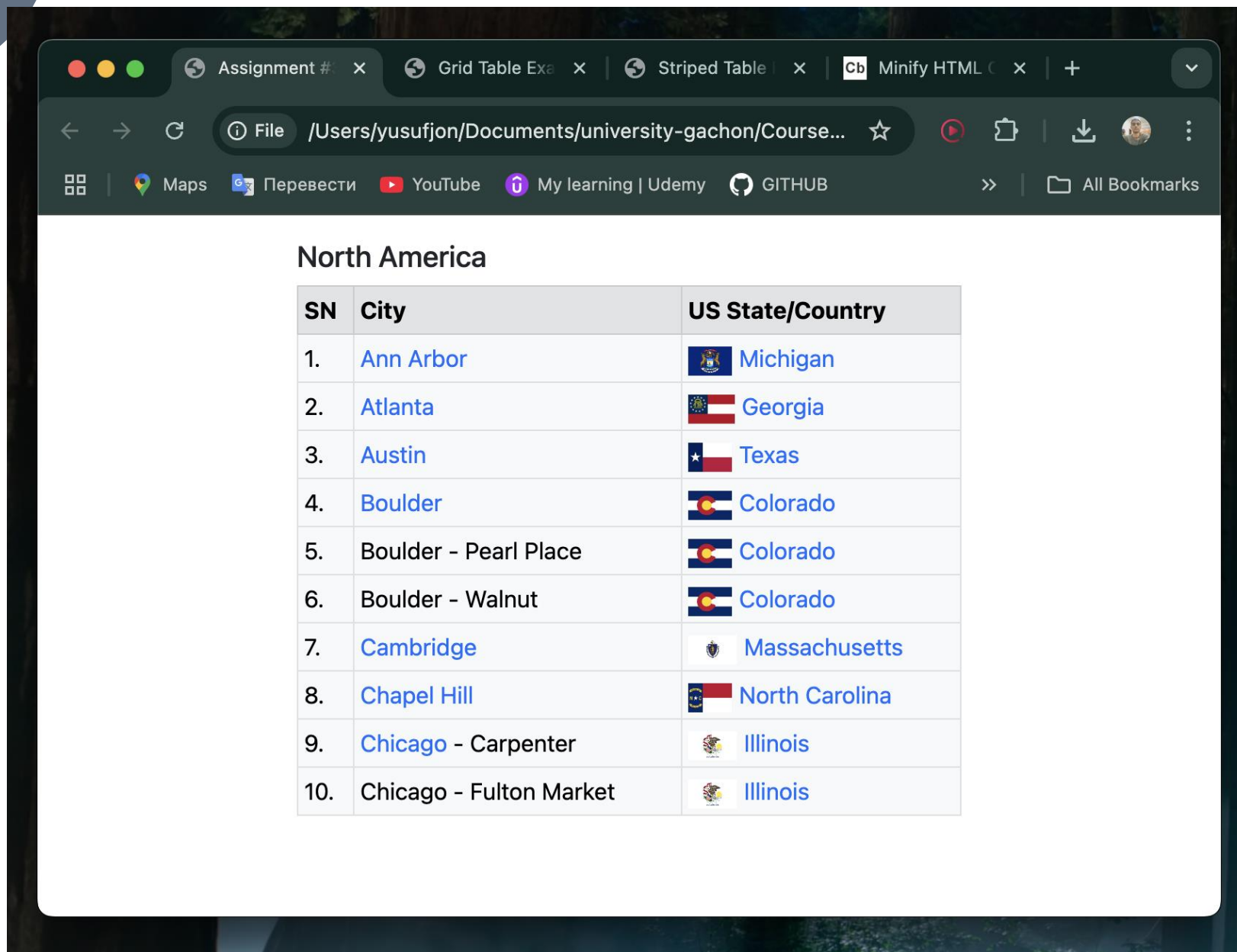
```
<!DOCTYPE html><html lang="en"><head><meta charset="UTF-8"><meta name="viewport" content="width=auto,initial-scale=1"><title>Assignment #3 - Akhmedov
Yusufjon</title><link rel="stylesheet" href="table.css"><link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.0.1/css/bootstrap.min.css"
integrity="sha512-Ez0cGzNzHR1tYAv56860NLspgUGuQw16GiOOp/I2LuTmpSK9xDXlgJz3XN4cnpXWDmkNBKXR/VDMTCnAaEooxA==" crossorigin="anonymous"
referrerpolicy="no-referrer"></head><body><div class="container py-3"><div class="row"><div class="col-md-8 col-lg-6 col-xl-4 mx-auto"><h5>North America</h5><table
class="table table-sm table-bordered table-responsive table-hover"><thead class="table-secondary"><tr><th>SN</th><th>City</th><th>US
State/Country</th></tr></thead><tbody class="table-light"><tr><td>1.</td><td><a href="https://en.wikipedia.org/wiki/Ann_Arbor,_Michigan">Ann
Arbor</a></td><td><img src="https://upload.wikimedia.org/wikipedia/commons/b/b5/Flag_of_Michigan.svg" class="flag-icon"><a
href="https://en.wikipedia.org/wiki/Michigan">Michigan</a></td></tr><tr><td>2.</td><td><a href="https://en.wikipedia.org/wiki/Atlanta">Atlanta</a></td><td><img
src="https://upload.wikimedia.org/wikipedia/commons/thumb/0/08/Flag_of_the_State_of_Georgia.svg/250px-Flag_of_the_State_of_Georgia.svg.png" class="flag-
icon"><a href="https://en.wikipedia.org/wiki/Georgia_(U.S._state)">Georgia</a></td></tr><tr><td>3.</td><td><a
href="https://en.wikipedia.org/wiki/Austin,_Texas">Austin</a></td><td><img src="https://upload.wikimedia.org/wikipedia/commons/f/f7/Flag_of_Texas.svg"
class="flag-icon"><a href="https://en.wikipedia.org/wiki/Texas">Texas</a></td></tr><tr><td>4.</td><td><a
href="https://en.wikipedia.org/wiki/Boulder,_Colorado">Boulder</a></td><td><img src="https://upload.wikimedia.org/wikipedia/commons/4/46/Flag_of_Colorado.svg"
class="flag-icon"><a href="https://en.wikipedia.org/wiki/Colorado">Colorado</a></td></tr><tr><td>5.</td><td>Boulder - Pearl Place</td><td><img
src="https://upload.wikimedia.org/wikipedia/commons/4/46/Flag_of_Colorado.svg" class="flag-icon"><a
href="https://en.wikipedia.org/wiki/Colorado">Colorado</a></td></tr><tr><td>6.</td><td>Boulder - Walnut</td><td><img
src="https://upload.wikimedia.org/wikipedia/commons/4/46/Flag_of_Colorado.svg" class="flag-icon"><a
href="https://en.wikipedia.org/wiki/Colorado">Colorado</a></td></tr><tr><td>7.</td><td><a
href="https://en.wikipedia.org/wiki/Cambridge,_Massachusetts">Cambridge</a></td><td><img
src="https://upload.wikimedia.org/wikipedia/commons/f/f2/Flag_of_Massachusetts.svg" class="flag-icon"><a
href="https://en.wikipedia.org/wiki/Massachusetts">Massachusetts</a></td></tr><tr><td>8.</td><td><a
href="https://en.wikipedia.org/wiki/Chapel_Hill,_North_Carolina">Chapel Hill</a></td><td><img
src="https://upload.wikimedia.org/wikipedia/commons/b/bb/Flag_of_North_Carolina.svg" class="flag-icon"><a
href="https://en.wikipedia.org/wiki/North_Carolina">North Carolina</a></td></tr><tr><td>9.</td><td><a href="https://en.wikipedia.org/wiki/Chicago">Chicago</a>-
Carpenter</td><td><img src="https://upload.wikimedia.org/wikipedia/commons/0/01/Flag_of_Illinois.svg" class="flag-icon"><a
href="https://en.wikipedia.org/wiki/Illinois">Illinois</a></td></tr><tr><td>10.</td><td>Chicago - Fulton Market</td><td><img
src="https://upload.wikimedia.org/wikipedia/commons/0/01/Flag_of_Illinois.svg" class="flag-icon"><a
href="https://en.wikipedia.org/wiki/Illinois">Illinois</a></td></tr></tbody></table></div></div></div></body></html>
```

CSS

```
a{
text-decoration: none !important;
}
.flag-icon {
height: 20px;
margin-right: 5px;
}
```

North America

SN	City	US State/Country
1.	Ann Arbor	Michigan
2.	Atlanta	Georgia
3.	Austin	Texas
4.	Boulder	Colorado
5.	Boulder - Pearl Place	Colorado
6.	Boulder - Walnut	Colorado
7.	Cambridge	Massachusetts
8.	Chapel Hill	North Carolina
9.	Chicago - Carpenter	Illinois
10.	Chicago - Fulton Market	Illinois

Output

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Q2: Write an HTML and CSS code to set the green colour to alternate even rows in a table.

Name	Designation	Salary
Steve	Manager	1,00,000
SURAJ	Assistant Manager	50,000
Khushboo	Analysist	65,000
Kartik	Worker	20,000
Saksham	Worker	20,000

HTML - minified

```html
<!DOCTYPE html><head><title>Striped Table Example</title><link rel="stylesheet" href="striped.css"></head><body><table><thead><tr><th>Name</th><th>Designation</th><th>Salary</th></tr></thead><tbody><tr><td>Steve</td><td>Manager</td><td>1,00,000</td></tr><tr><td>SURAJ</td><td>Assistant Manager</td><td>50,000</td></tr><tr><td>Khushboo</td><td>Analysist</td><td>65,000</td></tr><tr><td>Kartik</td><td>Worker</td><td>20,000</td></tr><tr><td>Saksham</td><td>Worker</td><td>20,000</td></tr></tbody></table></body>
```

```css
a{
text-decoration: none !important;
}
.flag-icon {
height: 20px;
margin-right: 5px;
}
```

Name	Designation	Salary
Steve	Manager	1,00,000
SURAJ	Assistant Manager	50,000
Khushboo	Analysist	65,000
Kartik	Worker	20,000
Saksham	Worker	20,000
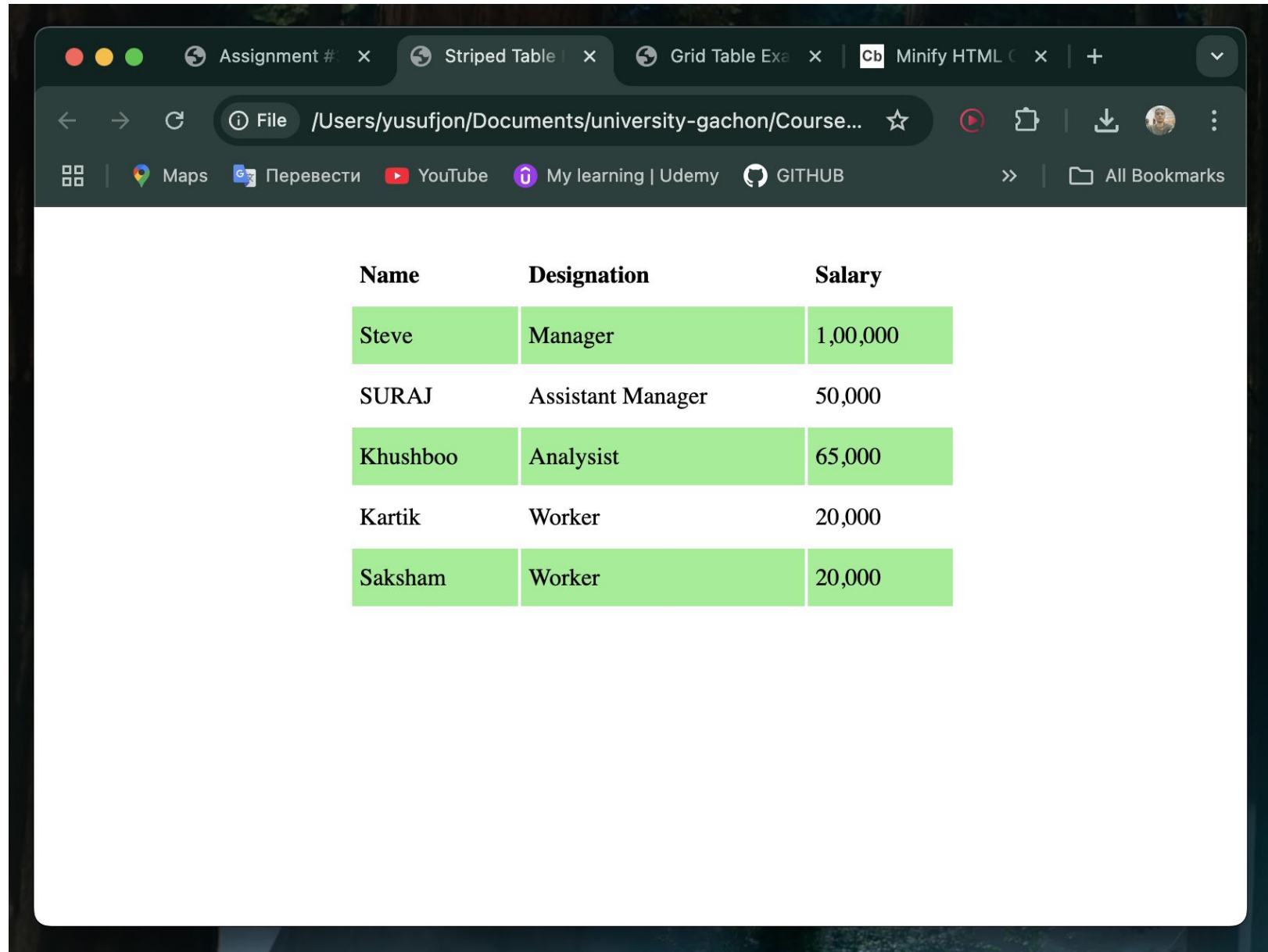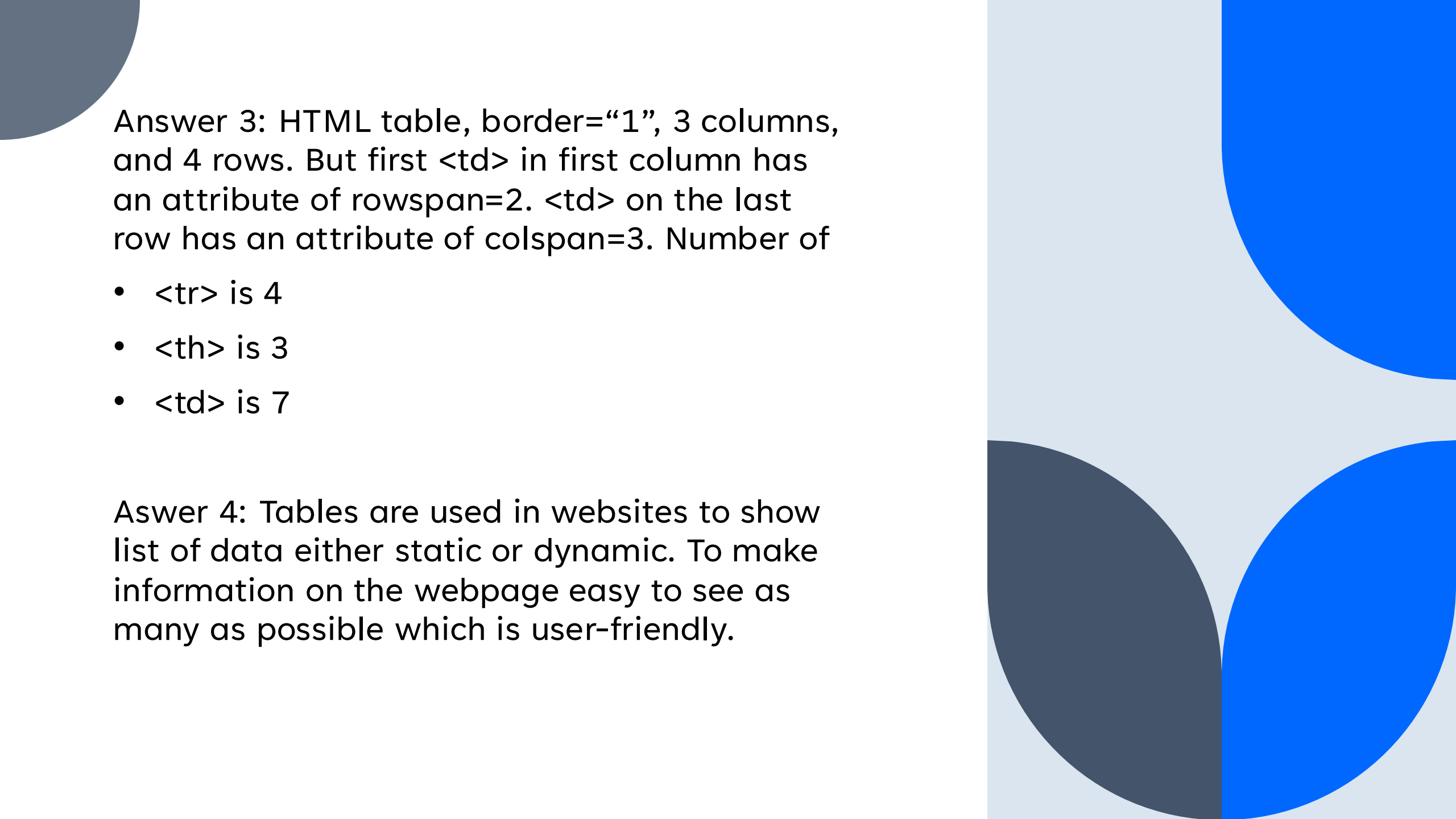
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Q3: Analyze the below HTML Table, and count the number of <tr>, <td>, <th> tags used in it.

Column 1	Column 2	Column 3
Row 1 Cell 1	Row 1 Cell 2	Row 1 Cell 3
	Row 2 Cell 2	Row 2 Cell 3
Row 3 Cell 1		

Q4: Why HTML tables are used in websites. Please write answer with 2~3 sentences only.

Answer 3: HTML table, border="1", 3 columns, and 4 rows. But first <td> in first column has an attribute of rowspan=2. <td> on the last row has an attribute of colspan=3. Number of

- <tr> is 4
- <th> is 3
- <td> is 7

Aswer 4: Tables are used in websites to show list of data either static or dynamic. To make information on the webpage easy to see as many as possible which is user-friendly.

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Q5: Write an HTML code to convert the table given on the left side to the right side.

Left

Right

Name	Subject	Marks
Mark Smith	English	67
	Maths	82
	Science	91

→

Name	Subject	Marks
Mark Smith	English	
	Maths	0
	Science	

Code

tablegrid.html

web-programming > Assignment3 > tablegrid.html > body > table

```html
1  <!DOCTYPE html>
2  <head>
3      <title>Grid Table Example</title>
4      <link rel="stylesheet" href="tablegrid.css">
5  </head>
6  <body>
7      <table border="1">
8        <thead>
9          <tr>
10             <th>Name</th>
11             <th>Subject</th>
12             <th>Marks</th>
13         </tr>
14       </thead>
15       <tbody>
16         <tr>
17             <td rowspan="3">Mark Smith</td>
18             <td>English</td>
19             <th rowspan="3">0</th>
20         </tr>
21         <tr>
22             <td>Math</td>
23         </tr>
24         <tr>
25             <td>Science</td>
26         </tr>
27       </tbody>
28     </table>
29  </body>
30  </html>
```

tablegrid.css

web-programming > Assignment3 > tablegrid.css > td

```css
1  table{
2      border-collapse: collapse;
3      margin: 3rem auto;
4  }
5
6  td, th{
7      padding: 7px;
8  }
```

Name	Subject	Marks
Mark Smith	English	0
	Math	
	Science	
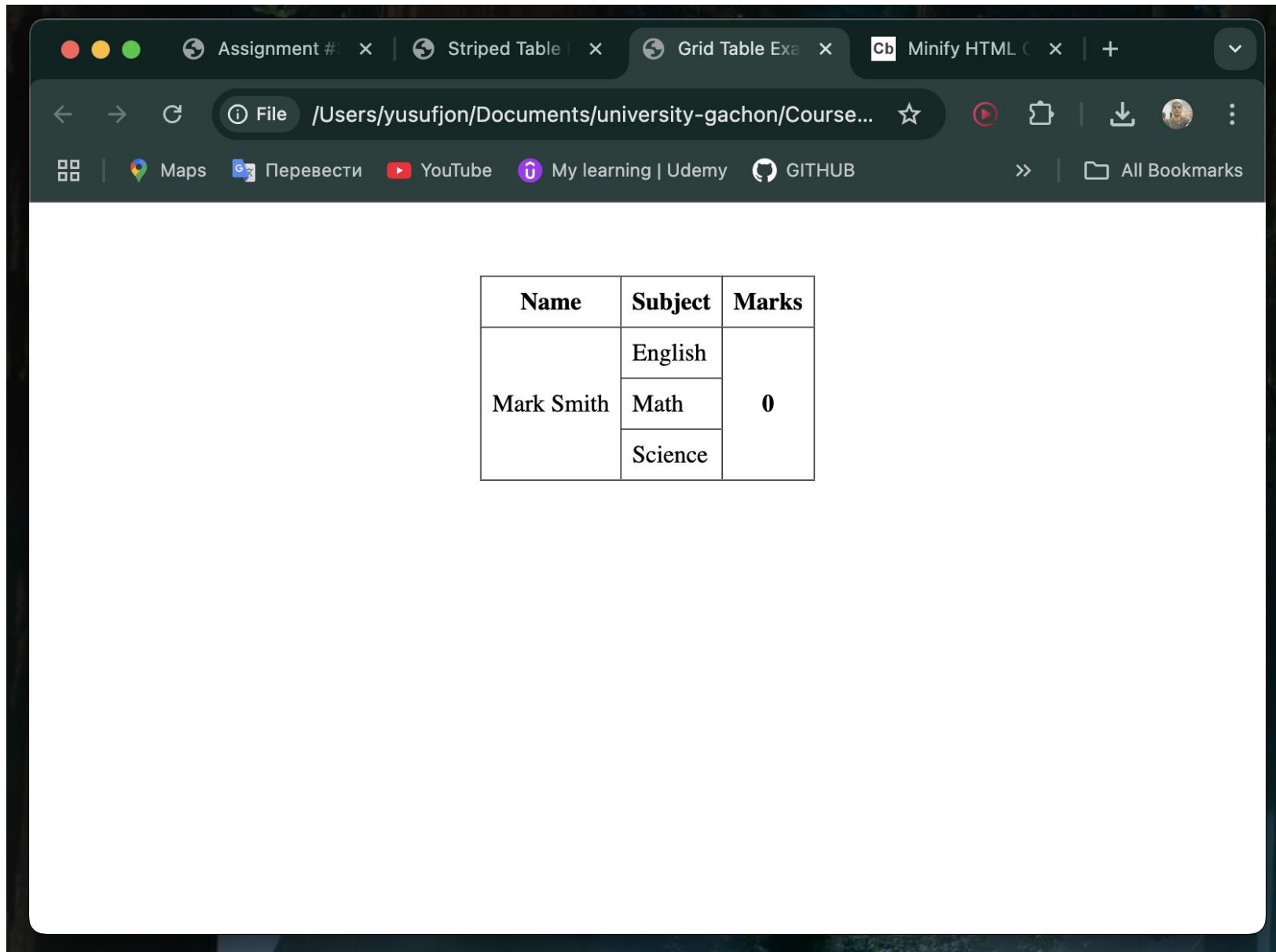
Output

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Q6: Conver the below code to offline CSS style. Please download the CSS file and add it to the HTML code.

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Example</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet">
  <style>
    /* Custom Styles */
    .custom-button {
      background-color: #ff6347;
      color: white;
      border-radius: 5px;
    }
  </style>
</head>
<body>

  <div class="container mt-5">
    <h1 class="text-center mb-4">Bootstrap Example</h1>

    <!-- Buttons with Bootstrap classes -->
    <div class="d-flex justify-content-center mb-4">
      <button class="btn btn-primary mx-2">Primary Button</button>
      <button class="btn btn-secondary mx-2">Secondary Button</button>
      <button class="btn custom-button mx-2">Custom Button</button>
    </div>

    <!-- Grid System Example -->
    <div class="row">
      <div class="col-md-6">
        <div class="p-3 mb-2 bg-light text-dark text-center">Column 1</div>
      </div>
      <div class="col-md-6">
        <div class="p-3 mb-2 bg-light text-dark text-center">Column 2</div>
      </div>
    </div>
  </div>

  <!-- Bootstrap JS and dependencies (Popper.js and Bootstrap JS) -->
  <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.min.js"></script>
</body>
</html>
```

Note: You can get the code from the lab practice uploaded together with Lec. 5 and modify the circle part.
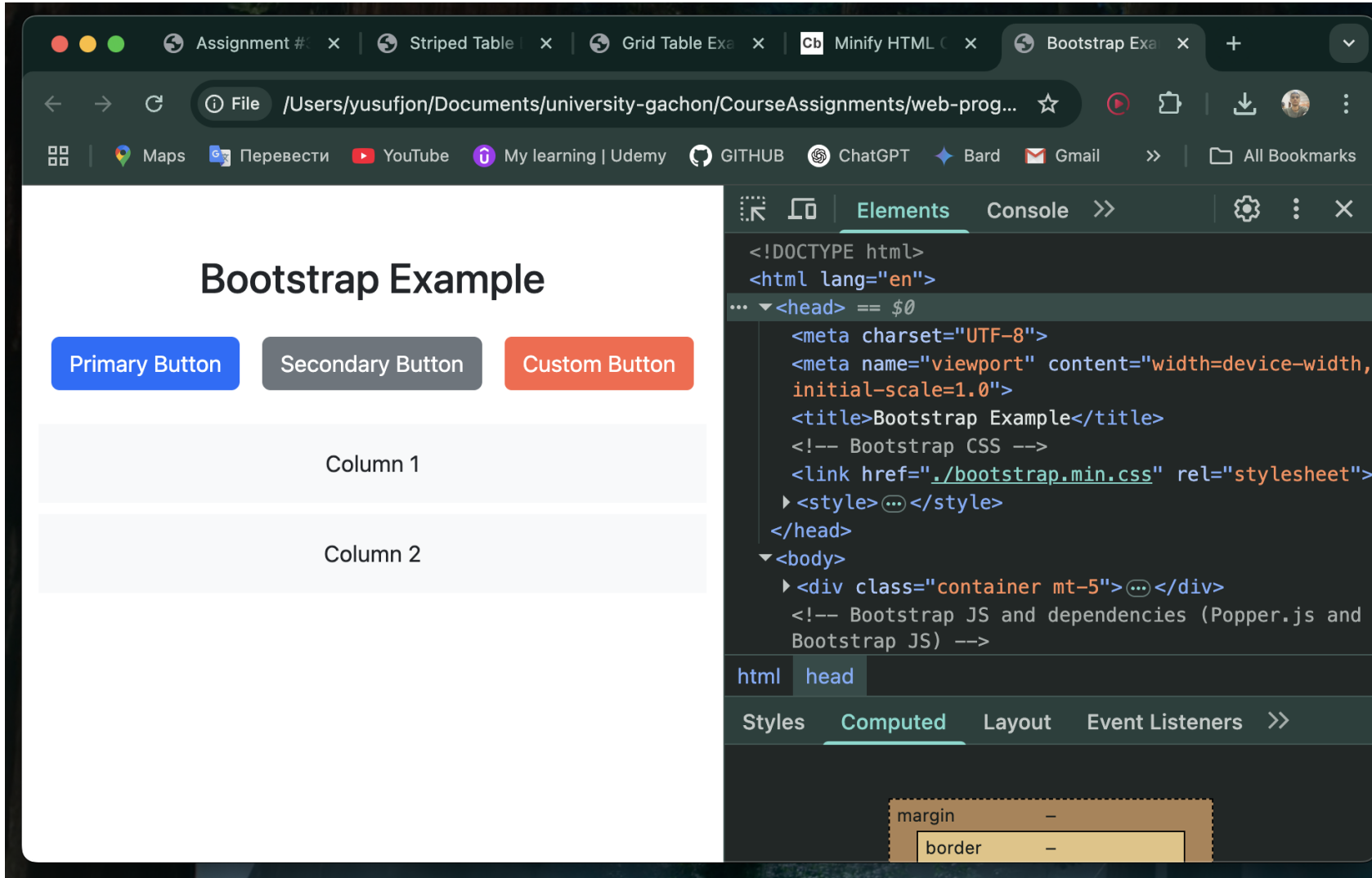
Code


```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, in
  <title>Bootstrap Example</title>
  <!-- Bootstrap CSS -->
  <link href="./bootstrap.min.css" rel="stylesheet">
  <style>
    /* Custom Styles */
    .custom-button {
      background-color: #ff6347;
      color: white;
      border-radius: 5px;
    }
  </style>
</head>
<body>

  <div class="container mt-5">
    <h1 class="text-center mb-4">Bootstrap Example</h1>
```