

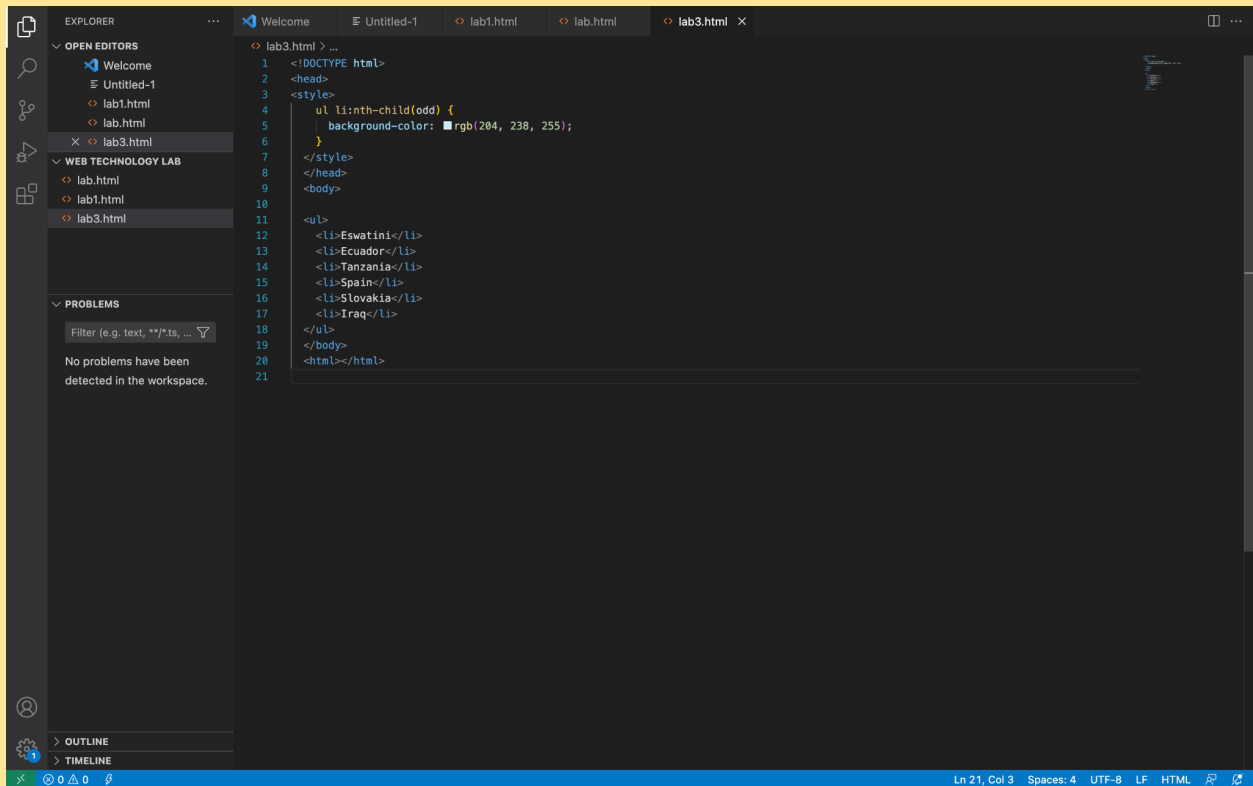
LAB ASSIGNMENT 3

HIMANSHU KAUSHAL
22CS3027

T1. Add a CSS rule and appropriate html to style every other line of the unordered list with a light blue background color. Specify the background color using the rgb method.

- Eswatini
- Ecuador
- Tanzania
- Spain
- Slovakia
- Iraq

ANS:



T2. Given the table in the question style the table so that the odd rows have a light gray background. In addition add a header row to the table and style that row so it has white text and a black background color. Change the font so that they are all 14 point sans serif of some kind.

Albania	Tirana	Albanian
Papua New Guinea	Port Moresby	English
Latvia	Riga	Latvian
France	Paris	French

ANS:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>My Table</title>
<style>
table {
  border-collapse: collapse;
  width: 100%;
}

th, td {
  padding: 10px;
  text-align: left;
  font-family: sans-serif;
  font-size: 14px;
}

tr:nth-child(odd) {
  background-color: #eee;
}

th {
  background-color: #000;
  color: #fff;
}
</style>
</head>
<body>
<table>
  <tr>
    <th>Country</th>
    <th>Capital</th>
    <th>Language</th>
  </tr>
  <tr>
    <td>Albania</td>
```

```

        <td>Tirana</td>
        <td>Albanian</td>
    </tr>
    <tr>
        <td>Papua New Guinea</td>
        <td>Port Moresby</td>
        <td>English</td>
    </tr>
    <tr>
        <td>Latvia</td>
        <td>Riga</td>
        <td>Latvian</td>
    </tr>
    <tr>
        <td>France</td>
        <td>Paris</td>
        <td>French</td>
    </tr>
</table>
</body>
</html>

```

Country	Capital	Language
Albania	Tirana	Albanian
Papua New Guinea	Port Moresby	English
Latvia	Riga	Latvian
France	Paris	French

T3. Suppose you are working on a recipe website. Recipes have a title, a list of ingredients, and an instructions section. Make a webpage that shows the recipe for grilled cheese sandwiches with bacon and tomato. The ingredients should be displayed as an unordered list, with no bullets. Meat ingredients should have a light red background color, vegetables should have a light green background, and dairy products should have a light yellow. The title should be in a sans serif font of your choice, and the instructions should have a heading “Instructions” and the font for the instructions should be italic.

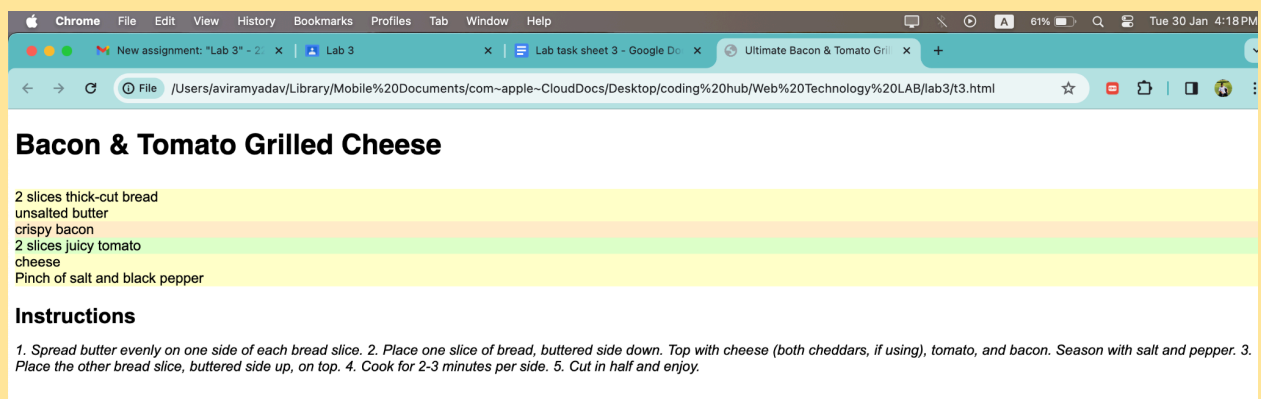
ANS:

```
<!DOCTYPE html>
<head>
  <meta charset="UTF-8">
  <title>Ultimate Bacon & Tomato Grilled Cheese</title>
  <style>
    body {
      font-family: Arial, sans-serif;
    }
    h1 {
      font-family: "Open Sans", sans-serif;
      font-size: 2em;
      margin-bottom: 1em;
    }
    ul {
      list-style: none;
      padding: 0;
      margin: 0;
    }
    li.meat {
      background-color: #ffeec;
    }
    li.vegetable {
      background-color: #ddffcc;
    }
    li.dairy {
      background-color: #ffffcc;
    }
    h2 {
      font-size: 1.5em;
      margin-bottom: 0.5em;
      font-weight: bold;
    }
    p.instructions {
      font-style: italic;
    }
  </style>
```

```

</head>
<body>
  <h1> Bacon & Tomato Grilled Cheese</h1>
  <ul>
    <li class="dairy">2 slices thick-cut bread</li>
    <li class="dairy">unsalted butter</li>
    <li class="meat">crispy bacon</li>
    <li class="vegetable">2 slices juicy tomato</li>
    <li class="dairy">cheese</li>
    <li class="dairy">Pinch of salt and black pepper</li>
  </ul>
  <h2>Instructions</h2>
  <p class="instructions">
    1. Spread butter evenly on one side of each bread slice.
    2. Place one slice of bread, buttered side down. Top with cheese (both cheddars, if
using), tomato, and bacon. Season with salt and pepper.
    3. Place the other bread slice, buttered side up, on top.
    4. Cook for 2-3 minutes per side.
    5. Cut in half and enjoy.
  </p>
</body>
</html>

```



T4. Using CSS and HTML Make a webpage that has two columns. Each column should use half of the width of the page. The left half should have a light gray background and the right half should have a light green background. The left half should have a list of

the 5 best selling books in Amazon's kindle store, and the right should have a list of your five favorite celebrities or athletes.

ANS:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Bestsellers & Favorites</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      margin: 0;

      padding: 0;

    }

    .container {

      display: flex;

      height: 100vh;
```

```
}
```

```
.column {
```

```
  flex: 1;
```

```
  padding: 20px;
```

```
}
```

```
.left {
```

```
  background-color: #eee;
```

```
}
```

```
.right {
```

```
  background-color: #dcedc8;
```

```
}
```

```
h2 {
```

```
  margin-bottom: 10px;
```

```
}
```



```
ul {  
  
    list-style: none;  
  
    padding: 0;  
  
    margin: 0;  
  
}  
  
li {  
  
    margin-bottom: 5px;  
  
}  
  
/* Optional media query for responsive design */  
  
@media (max-width: 600px) {  
  
    .container {  
  
        flex-direction: column;  
  
    }  
  
}
```

```
</style>

</head>

<body>

<div class="container">

  <div class="column left">

    <h2>Amazon Kindle Bestsellers</h2>

    <ul>

      <li>How to win friend and influence people</li>

      <li>Rich Dad Poor Dad</li>

      <li>Atomic Habits</li>

      <li>The Communist Manifesto</li>

      <li>Harry Potter</li>

    </ul>

  </div>

  <div class="column right">

    <h2>My Favorite Celebrities & Athletes</h2>

    <ul>
```

```
<li>Chirag Shetty</li>

<li>Alia Bhatt</li>

<li>Rohit Sharma</li>

<li>Suleman Benn</li>

<li>Pollard</li>

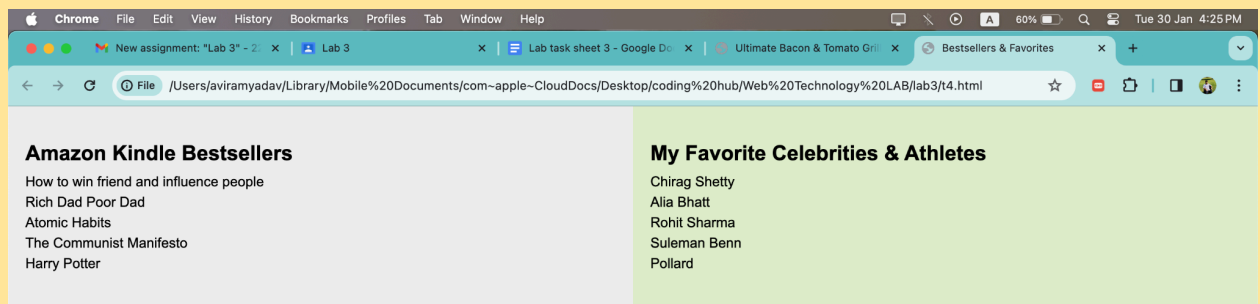
</ul>

</div>

</div>

</body>

</html>
```



T5. Using the nav element, make a navbar for at the top of a sample webpage. Add at least three links to the navbar using an unordered list that is displayed as inline rather than block. Make the navbar have a light blue background color, but change the background of the title to a darker blue when the mouse hovers over it.

ANS:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sample Page</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
    }

    nav {
      background-color: #6eb3f7;
      padding: 10px;
      display: flex;
      align-items: center;
      justify-content: space-between;
    }

    a {
      color: #fadfdf;
      text-decoration: none;
    }

    .title {
      font-size: 1.5em;
      font-weight: bold;
    }

    .title:hover {
      background-color: #1a90ff;
    }
  </style>
</head>
<body>
  <div>
    <div>
      <a href="#">Home</a>
      <a href="#">About</a>
      <a href="#">Contact</a>
    </div>
    <div>
      <h1>Sample Page</h1>
    </div>
  </div>
</body>
</html>
```

```

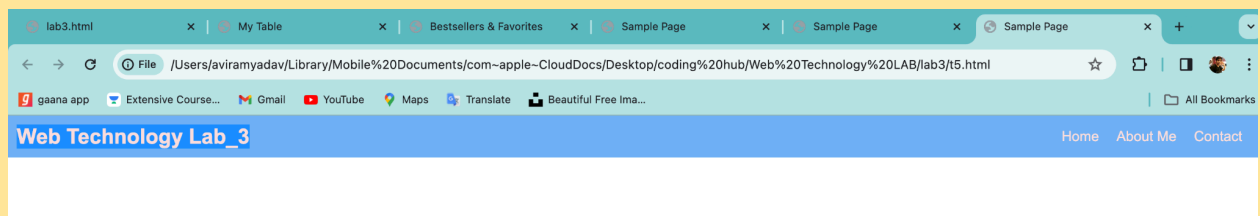
ul {
  list-style: none;
  padding: 0;
  margin: 0;
  display: inline-flex;
}

li {
  margin-right: 20px;
}

</style>
</head>
<body>
  <nav>
    <a href="#" class="title">Web Technology Lab_3</a>
    <ul>
      <li><a href="#">Home</a></li>
      <li><a href="#">About Me</a></li>
      <li><a href="#">Contact</a></li>
    </ul>
  </nav>

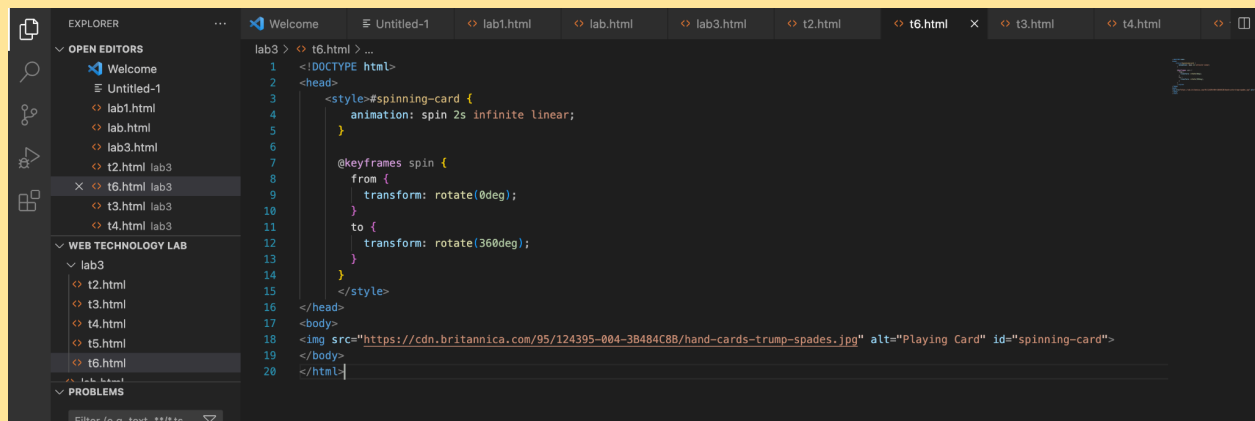
</body>
</html>

```



T6. Using the image of the playing card, use transformations and animations to make the playing card spin around endlessly.

ANS:



T7. Develop a homepage for yourself, published on github pages, that employs a two column layout with a fixed navbar (always on screen), and a footer. The navbar should link to at least two additional pages used to describe your hobbies or favorite teams. The CSS for this website should be contained in its own CSS file, and all three pages should use this CSS file.

ANS:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Bard: Your AI Companion</title>

  <style>
```

```
body {  
  
font-family: sans-serif;  
  
margin: 0;  
  
}  
  
header {  
  
background-color: #ff8d8d;  
  
color: #000000;  
  
padding: 1em;  
  
position: fixed;  
  
top: 0;  
  
left: 0;  
  
width: 100%;  
  
}  
  
nav {  
  
display: flex;  
  
justify-content: space-between;
```

```
}
```

```
nav a {
```

```
  color: #c90202;
```

```
  text-decoration: none;
```

```
  padding: 0.5em;
```

```
}
```

```
main {
```

```
  display: flex;
```

```
  padding: 1em;
```

```
}
```

```
.column {
```

```
  flex: 1;
```

```
  padding: 1em;
```

```
}
```



```
footer {

background-color: #fbe7e7;

color: #e90707;

text-align: center;

padding: 1em;

}


</style>

</head>

<body>

<header>

<nav>

<a href="#">Menu</a>

<a href="hobbies.html">Hobbies</a>

<a href="favorites.html">Favourite</a>

</nav>

</header>

<main>
```

```

<div class="column left">

</div>

<div class="column right">

</div>

</main>

<footer>

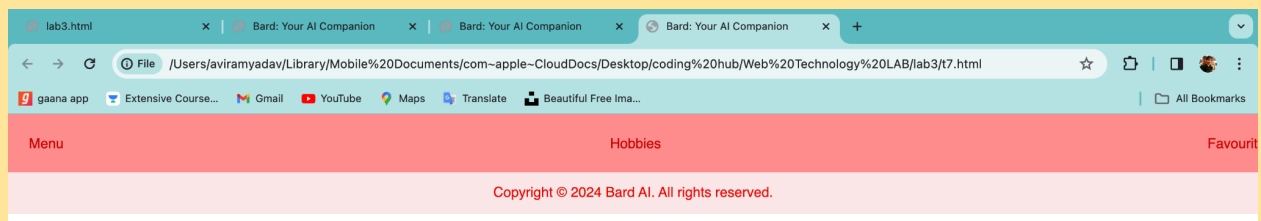
    Copyright &copy; 2024 Bard AI. All rights reserved.

</footer>

</body>

</html>

```



T8. Modify the final version of the [menu project](#) so that the menu is a horizontal menu with the first level of submenus dropping down below the selected item.

ANS:

```

<html>

```

```
<head>

<title>SubMenus</title>

<style type='text/css'>


nav ul {

    list-style: none;

    margin: 0;

    padding: 0;

    display: flex;

}

nav li {

    position: relative;

}

nav li a {

    display: block;

    padding: 10px 15px;

    text-decoration: none;

    color: black;
```

```
}

nav li ul {

    position: absolute;

    top: 100%;

    left: 0;

    display: none;

}

nav li:hover ul {

    display: block;

}

</style>

</head>

<body>

<h1>Fundamentals of Web Programming</h1>

<nav>

<ul>
```

```
<li><a href='/'>Home</a></li>
```

```
<li><a href='#'>Syllabus</a>
```

```
<ul>
```

```
<li><a href='#'>Text Book</a></li>
```

```
<li><a href='#'>Office Hours</a></li>
```

```
<li><a href='#'>Grading Policy</a></li>
```

```
<li><a href='#'>Learning Goals</a></li>
```

```
</ul>
```

```
</li>
```

```
<li><a href='#'>Resources</a></li>
```

```
<li><a href='#'>Publications</a>
```

```
<ul>
```

```
<li><a href='#'>Articles</a></li>
```

```
<li><a href='#'>Tutorials</a>
```

```
<ul>
```

```
<li><a href='#'>HTML</a></li>
```

```
<li><a href='#'>CSS</a></li>
```

```
<li><a href='#'>SVG</a></li>
```

```
<li><a href='#'>XML</a></li>

</ul>

</li>

<li><a href='#'>Assignments</a></li>

</ul>

</li>

<li><a href='#'>Contact</a></li>

</ul>

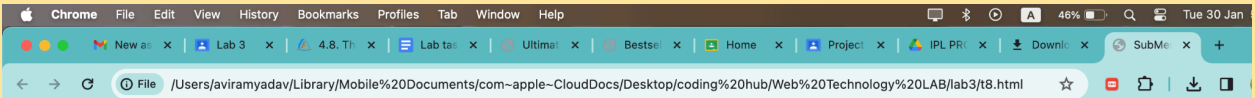
</nav>

<main>

</main>

</body>

</html>
```



Fundamentals of Web Programming

- Home
- Syllabus
- Resources
- Publications
- Contact
- Text Book
- Office Hours
- Grading Policy
- Learning Goals