

# Web Technology

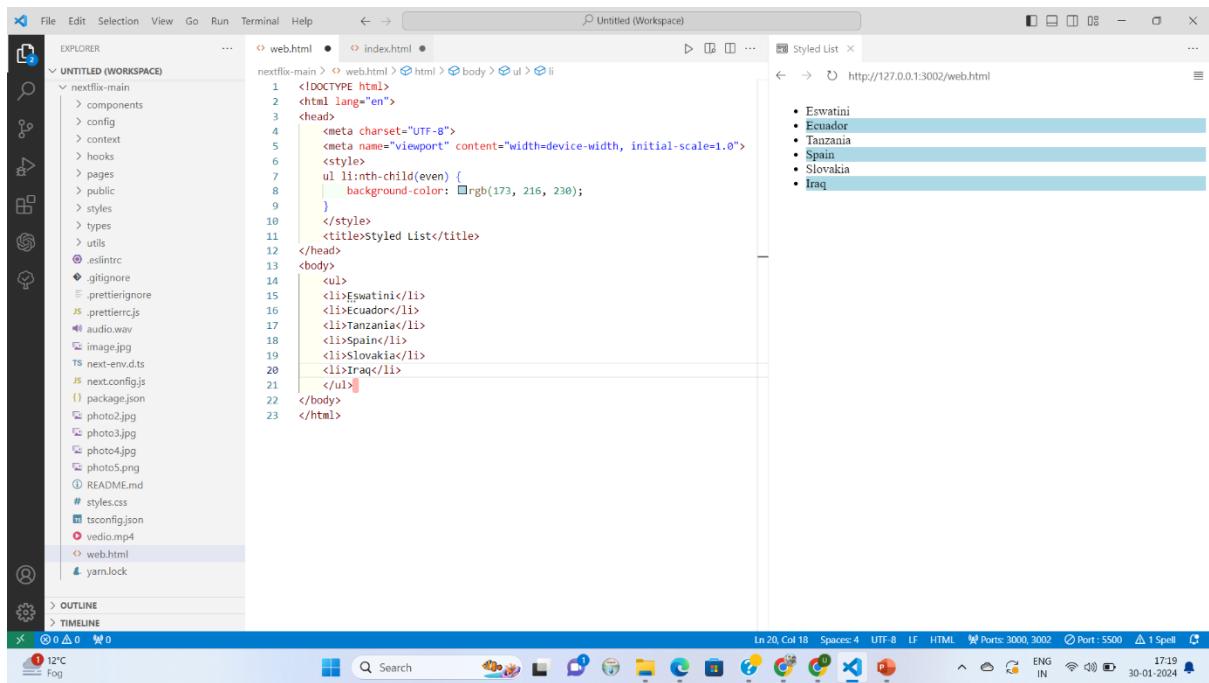
## Lab Assignment – 03

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### Task 1)



The screenshot shows a code editor interface with the following details:

- File Structure (EXPLORER):** The workspace contains a folder named "nextflix-main" which includes components, config, context, hooks, pages, public, styles, types, utils, and a .eslintrc file.
- Code Editor (web.html):** The main file being edited is "web.html". It contains an HTML document with a title "Styled List", a style section defining a class ".even" for even list items with a background color of "#rgb(173, 216, 230)", and a body containing an ul element with several li items: Eswatini, Ecuador, Tanzania, Spain, Slovakia, and Iraq.
- Output Panel (Style List):** This panel shows the rendered output of the CSS rule applied to the list items, displaying them with the specified blue background color.
- System Tray:** The taskbar at the bottom shows various system icons, including a weather icon (12°C), a search bar, and several pinned application icons like File Explorer, Edge, and File Manager.

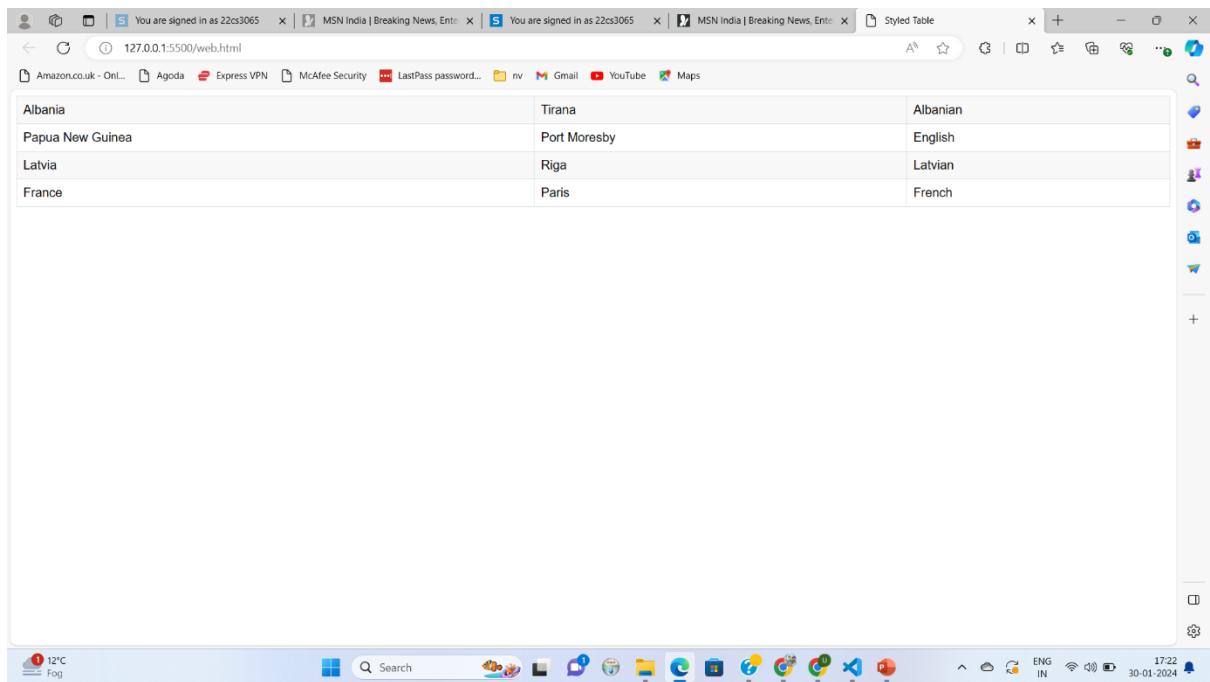
## Task 2)

The screenshot shows a code editor with an open file named `index.html`. The code is a simple table with three columns: Country, Capital, and Language. The styling includes a border for the table and alternating background colors for odd and even rows. The editor interface includes a sidebar with project files like `nextflix-main`, `components`, and `public`, and a bottom status bar showing file paths and system information.

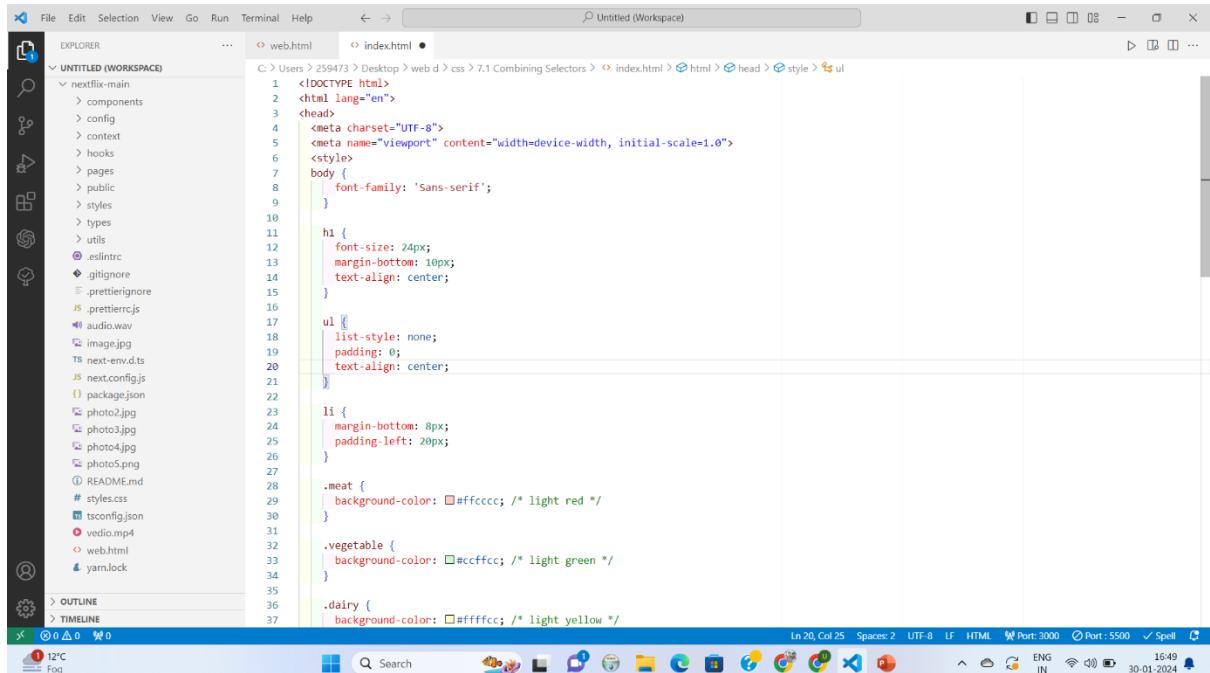
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
      table {
        font-family: 'Arial', sans-serif;
        border-collapse: collapse;
        width: 100%;
      }
      th, td {
        border: 1px solid #ddd;
        text-align: left;
        padding: 8px;
      }
      tr:nth-child(odd) {
        background-color: #f2f2f2;
      }
      th {
        background-color: black;
        color: white;
        font-size: 14px;
      }
    </style>
    <title>Styled Table</title>
  </head>
  <body>
    <table>
      <tbody>
        <tr>
          <td>Albania</td>
          <td>Tirana</td>
          <td>Albanian</td>
        </tr>
        <tr>
          <td>Papua New Guinea</td>
```

The screenshot shows the same code editor with the table styling completed. The header row now has a white background with black text and a larger font size. The rest of the table remains the same with alternating row colors and standard borders. The editor interface and status bar are identical to the previous screenshot.

```
color: white;
font-size: 14px;
}
<tbody>
  <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>
</tbody>
</table>
</body>
</html>
```



## Task 3)



The screenshot shows a code editor interface with the following details:

- File Path:** C:\Users\259473\Desktop\web d>css>7.1 Combining Selectors>index.html
- Editor Title:** index.html
- Content:** The code includes an external CSS file named "style.css" which defines classes for meat, dairy, and vegetable. The HTML document contains a title, a header, and a list of ingredients.
- Code Snippet:**

```
33 .meat {
34   background-color: #ccffcc; /* light green */
35 }
36 .dairy {
37   background-color: #ffffcc; /* light yellow */
38 }
39 .instructions {
40   font-style: italic;
41 }
42 
```

```
<head>
<title>Document</title>
</head>
<body>
<h1>Grilled Cheese Sandwiches with Bacon and Tomato</h1>
<h2>Ingredients:</h2>
<ul>
<li class="meat">Bacon</li>
<li class="dairy">Cheddar cheese slices</li>
<li class="dairy">Butter</li>
<li class="vegetable">Tomato slices</li>
<li class="dairy">Bread slices</li>
</ul>
<h2 class="instructions">Instructions:</h2>
<p>1. Cook the bacon until crispy.</p>
<p>2. Butter one side of each bread slice.</p>
<p>3. Place a slice of cheese, bacon, and tomato between two bread slices (buttered side out).</p>
<p>4. Grill the sandwich until the bread is golden brown and the cheese is melted.</p>
<p>5. Serve hot and enjoy!</p>
</body>
</html>
```

- Bottom Status Bar:** Shows line 20, column 25, spaces 2, LF, HTML, port 3000, port 5500, and spell checker status.

The screenshot shows a web browser window with the following details:

- Title:** Grilled Cheese Sandwiches with Bacon and Tomato
- Section:** Ingredients
- List:** Bacon, Cheddar cheese slices, Butter, Tomato slices, Bread slices
- Section:** Instructions
- List:** 1. Cook the bacon until crispy. 2. Butter one side of each bread slice. 3. Place a slice of cheese, bacon, and tomato between two bread slices (buttered side out). 4. Grill the sandwich until the bread is golden brown and the cheese is melted. 5. Serve hot and enjoy!
- Bottom Status Bar:** Shows 12°C Fog, search bar, taskbar with various icons, and system tray with date and time (30-01-2024, 16:50).

## Task 4)

The screenshot shows a code editor interface with the following details:

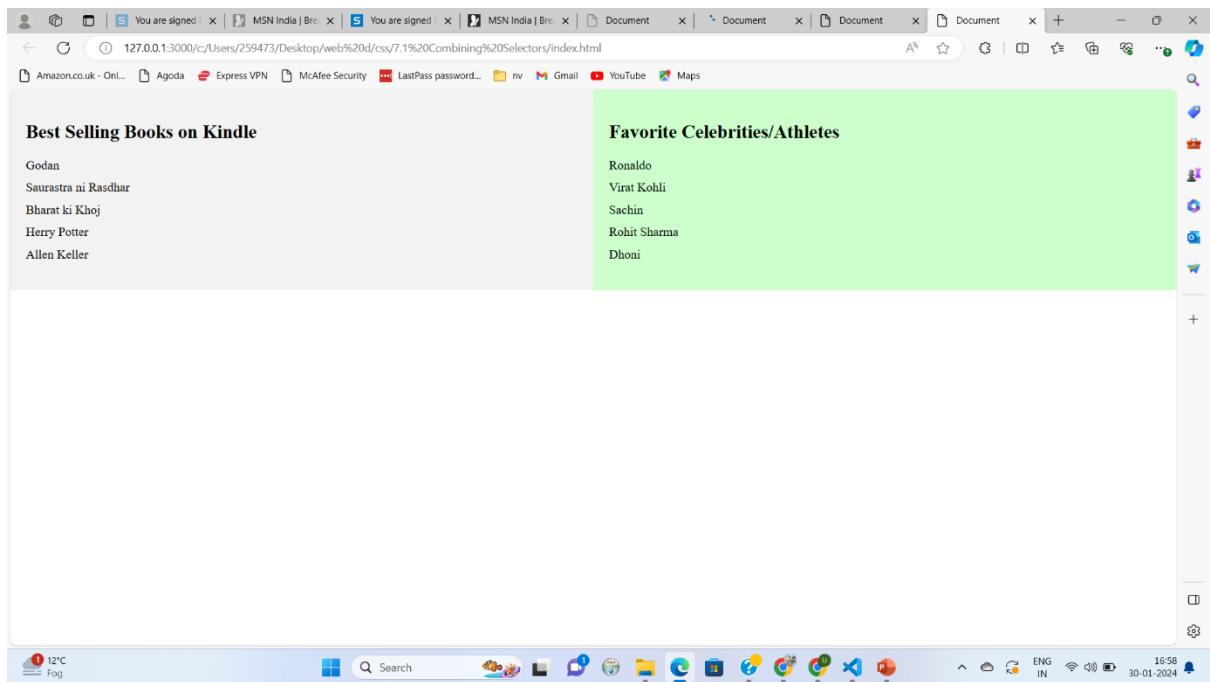
- File Path:** C:\Users>259473>Desktop>web d>css>7.1 Combining Selectors > index.html
- File Type:** index.css
- Content:** The CSS file defines a two-column layout with left and right columns. It includes styles for the body, container, column classes, and a list of items (ul, li).

```
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   <style>
7     body {
8       font-family: 'Sans-serif';
9       margin: 0;
10      padding: 0;
11    }
12
13    .container {
14      display: flex;
15      width: 100%;
16    }
17
18    .column {
19      flex: 1;
20      padding: 20px;
21    }
22
23    .left-column {
24      background-color: #f2f2f2; /* light gray */
25    }
26
27    .right-column {
28      background-color: #ccffcc; /* light green */
29    }
30
31    ul {
32      list-style-type: none;
33      padding: 0;
34    }
35
36    li {
37      margin-bottom: 10px;
38    }
39
40  </style>
41  <title>document</title>
42 </head>
43 <body>
44   <div class="container">
45     <div class="column left-column">
46       <h2>Best Selling Books on Kindle</h2>
47       <ul>
48         <li>Godan</li>
49         <li>Saurashtra ni Rasdhari</li>
50         <li>Rharat ki Khoj</li>
51         <li>Harry Potter</li>
52         <li>Allen Keller</li>
53       </ul>
54     </div>
55
56     <div class="column right-column">
57       <h2>Favorite Celebrities/Athletes</h2>
58       <ul>
59         <li>Ronaldo</li>
60         <li>Virat Kohli</li>
61         <li>Sachin</li>
62         <li>Rohit Sharma</li>
63         <li>Dhoni</li>
64       </ul>
65     </div>
66   </body>
67 </html>
```
- Editor Features:** The interface includes an Explorer sidebar, a search bar, and various toolbars at the bottom.

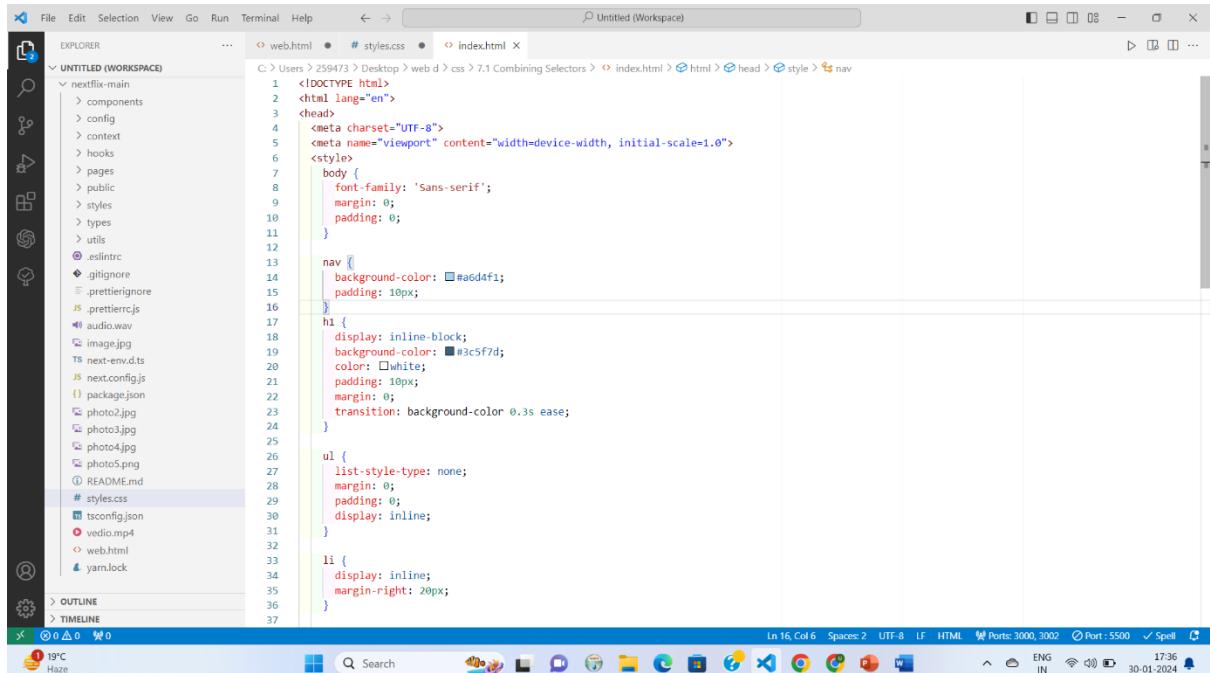
The screenshot shows a code editor interface with the following details:

- File Path:** C:\Users>259473>Desktop>web d>css>7.1 Combining Selectors > index.html
- File Type:** index.css
- Content:** The CSS file has been modified to remove the list-style-type from the li selector, resulting in a simple list of items.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <style>
5     li {
6       margin-bottom: 10px;
7     }
8   </style>
9   <title>document</title>
10 </head>
11 <body>
12   <div class="container">
13     <div class="column left-column">
14       <h2>Best Selling Books on Kindle</h2>
15       <ul>
16         <li>Godan</li>
17         <li>Saurashtra ni Rasdhari</li>
18         <li>Rharat ki Khoj</li>
19         <li>Harry Potter</li>
20         <li>Allen Keller</li>
21       </ul>
22     </div>
23
24     <div class="column right-column">
25       <h2>Favorite Celebrities/Athletes</h2>
26       <ul>
27         <li>Ronaldo</li>
28         <li>Virat Kohli</li>
29         <li>Sachin</li>
30         <li>Rohit Sharma</li>
31         <li>Dhoni</li>
32       </ul>
33     </div>
34   </body>
35 </html>
```
- Editor Features:** The interface includes an Explorer sidebar, a search bar, and various toolbars at the bottom.

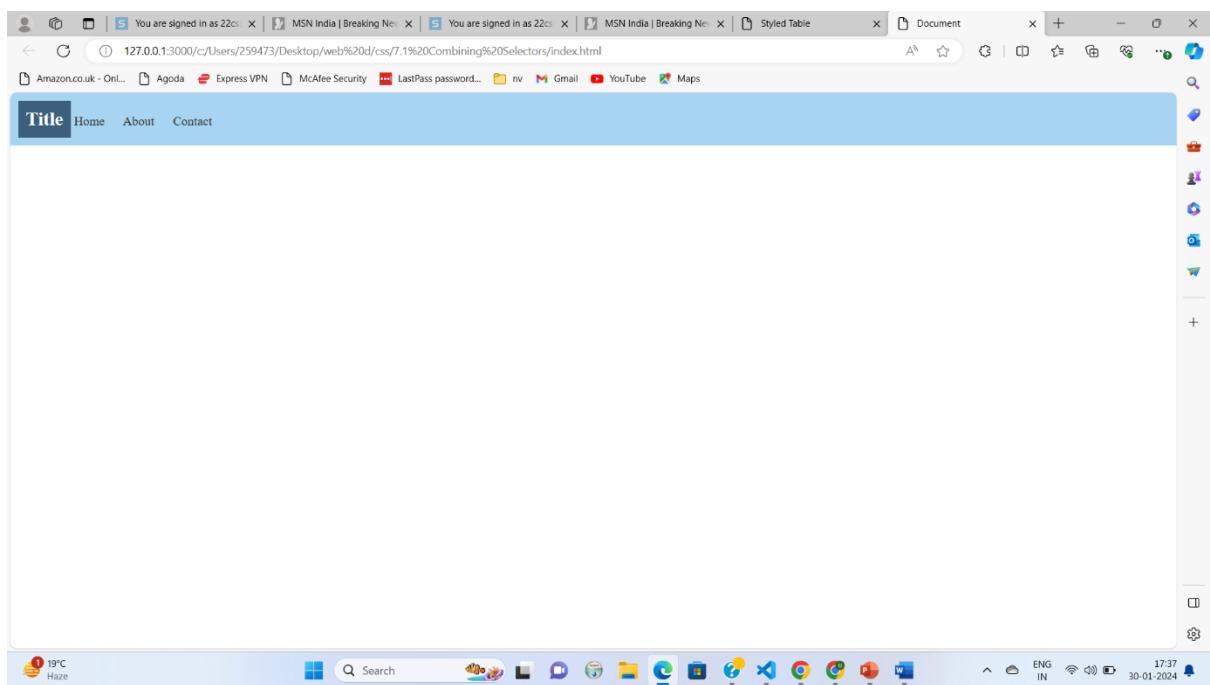


## Task 5)



The screenshot shows a code editor interface with the following details:

- File Explorer:** On the left, it displays the project structure under "UNTITLED (WORKSPACE)".
- Code Editor:** The main area shows a snippet of CSS and HTML code. The CSS part includes rules for `li` and `a` elements, with some properties like `color` and `transition` highlighted in red. The HTML part shows a basic navigation structure with `title`, `head`, and `body` sections.
- Status Bar:** At the bottom, it shows "Ln 16, Col 6" and other status indicators like "Spaces: 2", "UTF-8", "LF", "HTML", "Ports: 3000, 3002", "Port: 5500", "Spell", and system icons.



## Task 6)

The screenshot shows a code editor interface with the following details:

- File Explorer:** On the left, it lists the project structure under "UNTITLED (WORKSPACE)".
- Editor:** The main area displays the content of `web.html`. The code includes basic HTML structure with a title and a single `<div class="playing-card">`.
- Bottom Bar:** Shows file status (19C Haze), a search bar, and a toolbar with various icons.
- Status Bar:** Displays line (Ln 12), column (Col 8), spaces (Spaces: 4), encoding (UTF-8), file type (HTML), port (Port: 3000, 3002), and date (30-01-2024).

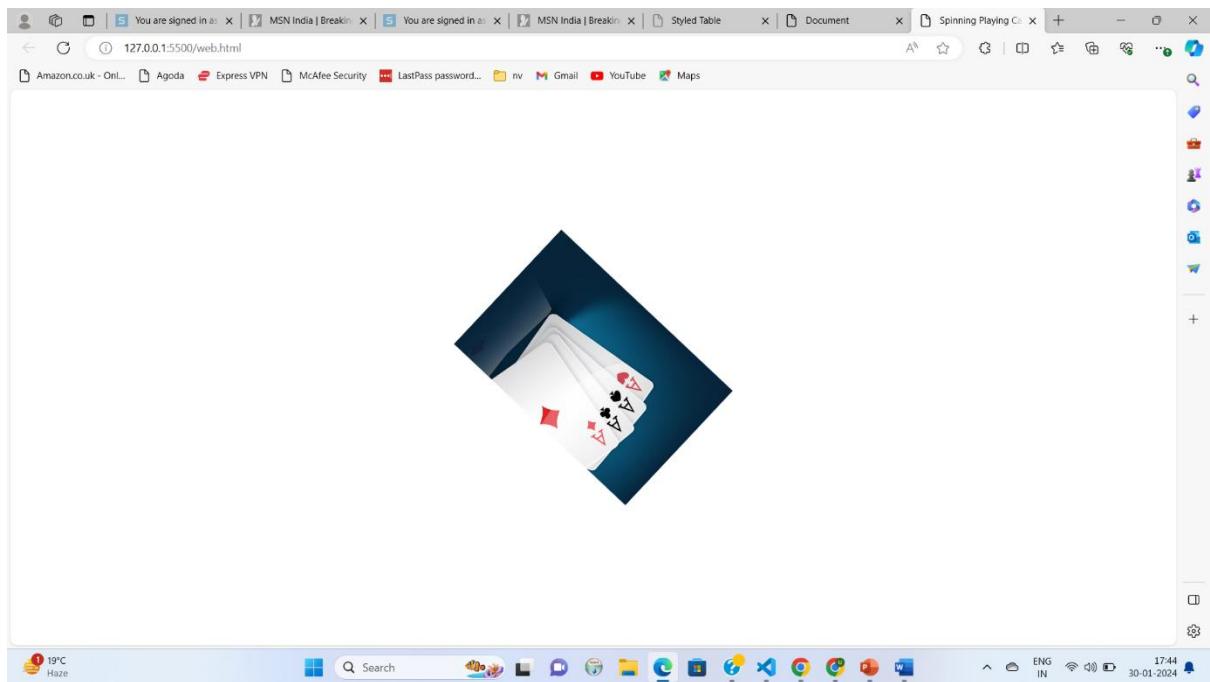
The screenshot shows the code editor after adding CSS to the `web.html` file:

```
nextflix-main > # styles.css > 🎰 playing-card
1 body {
2   display: flex;
3   align-items: center;
4   justify-content: center;
5   height: 100vh;
6   margin: 0;
7 }
8 .playing-card {
9   width: 200px;
10  height: 300px;
11  background-image: url('Playing\ Cards.jpg');
12  background-size: cover;
13  animation: spin 5s linear infinite;
14 }
15 @keyframes spin {
16  0% {
17    transform: rotate(0deg);
18  }
19  100% {
20    transform: rotate(360deg);
21  }
22 }
23 }
```

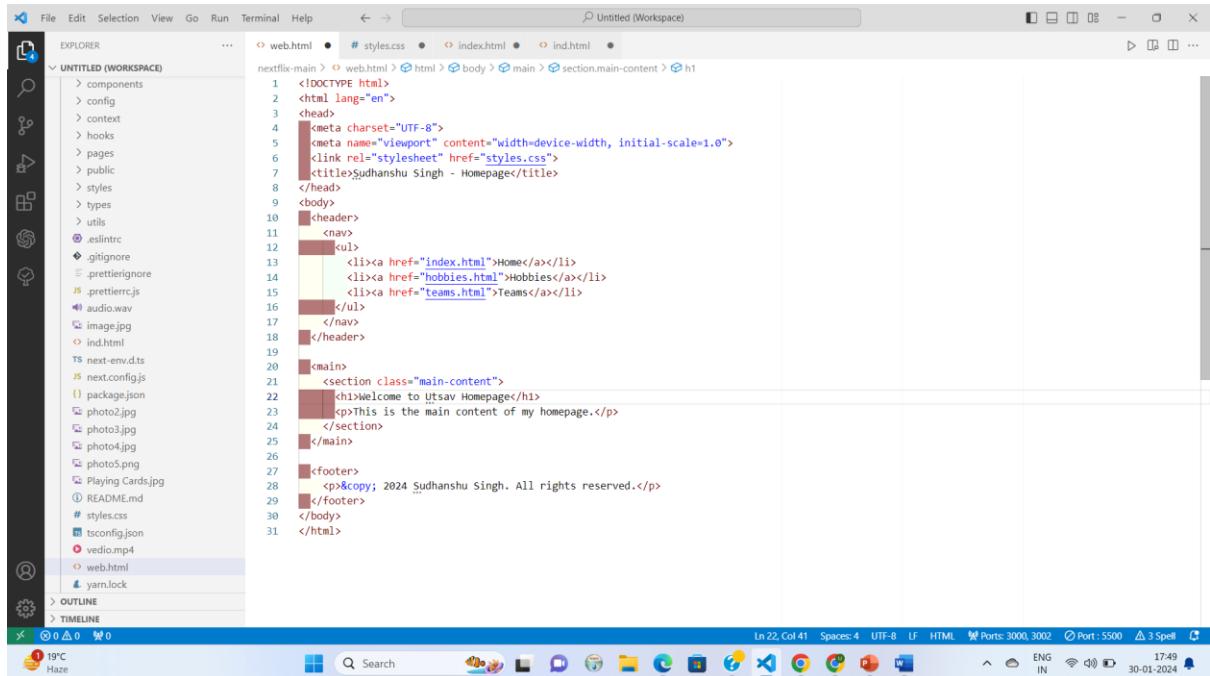
The code now includes a `body` style and a `.playing-card` selector with an `animation` rule.

**Bottom Bar:** Shows file status (19C Haze), a search bar, and a toolbar with various icons.

**Status Bar:** Displays line (Ln 12), column (Col 46), spaces (Spaces: 4), encoding (UTF-8), file type (CSS), port (Port: 3000, 3002), and date (30-01-2024).



## Task 7)



The screenshot shows a code editor interface with the following details:

- File Path:** C:\Users\259473\Desktop\web d>css>7.1 Combining Selectors > index.html
- Editor Title:** Untitled (Workspace)
- Code Content:**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="styles.css">
    <title>Hobbies</title>
  </head>
  <body>
    <header>
      <nav>
        <ul>
          <li><a href="index.html">Home</a></li>
          <li><a href="hobbies.html">Hobbies</a></li>
          <li><a href="teams.html">Teams</a></li>
        </ul>
      </nav>
    </header>
    <main>
      <section class="main-content">
        <h1>Welcome to Utsav Hobbies page</h1>
        <p>All work and no play makes your life dull. Hobbies are activities that are fun, entertaining and relaxing. People pursue their hobbies with great passion and enthusiasm. It helps them to relax and recharge their batteries. There are many different types of hobbies, such as reading, writing, painting, cooking, gardening, sports, music, dance, etc. Engaging in hobbies can improve physical health, cognitive abilities, and mental well-being. It can also provide a sense of accomplishment and satisfaction. Hobbies can bring people together and create social connections. They can be a source of joy and happiness, providing a much-needed break from the stresses of daily life. In this section, we will explore various hobbies and their benefits. Whether you're looking for a new hobby or want to learn more about your existing ones, this section is for you!</p>
    </main>
    <footer>
      <p>© 2024 Utsav. All rights reserved.</p>
    </footer>
  </body>
</html>
```
- Explorer View:** Shows files like components, config, context, hooks, pages, public, styles, types, utils, .eslintrc, .gitignore, .prettierrc.js, audio.wav, image.jpg, ind.html, next-env.d.ts, next.config.js, package.json, photo2.jpg, photo3.jpg, photo4.jpg, photo5.png, Playing Cards.jpg, README.md, styles.css, tsconfig.json, vedio.mp4, web.html, and yarn.lock.
- Bottom Status Bar:** Shows system information including temperature (19°C), weather (Haze), battery level, network status, and system date (30-01-2024).

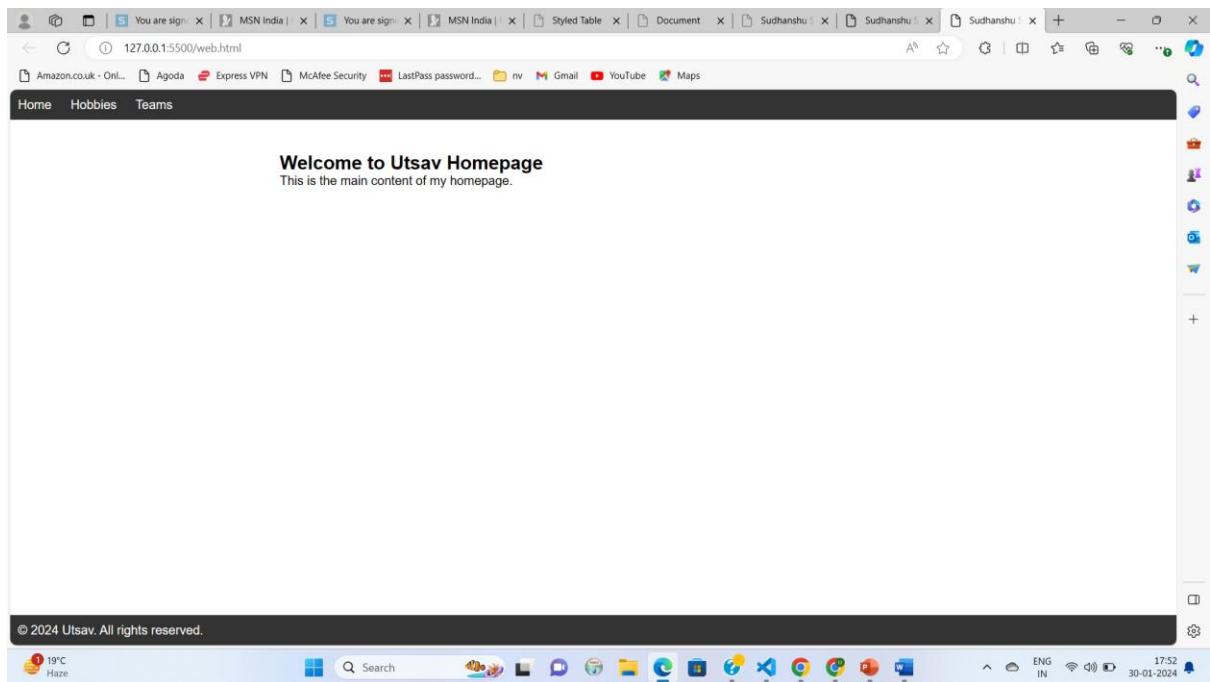
The screenshot shows a code editor interface with the following details:

- File Path:** C:\Users\259473\Desktop\web d>css>7.1 Combining Selectors > index.html
- Editor Title:** Untitled (Workspace)
- Code Content:**

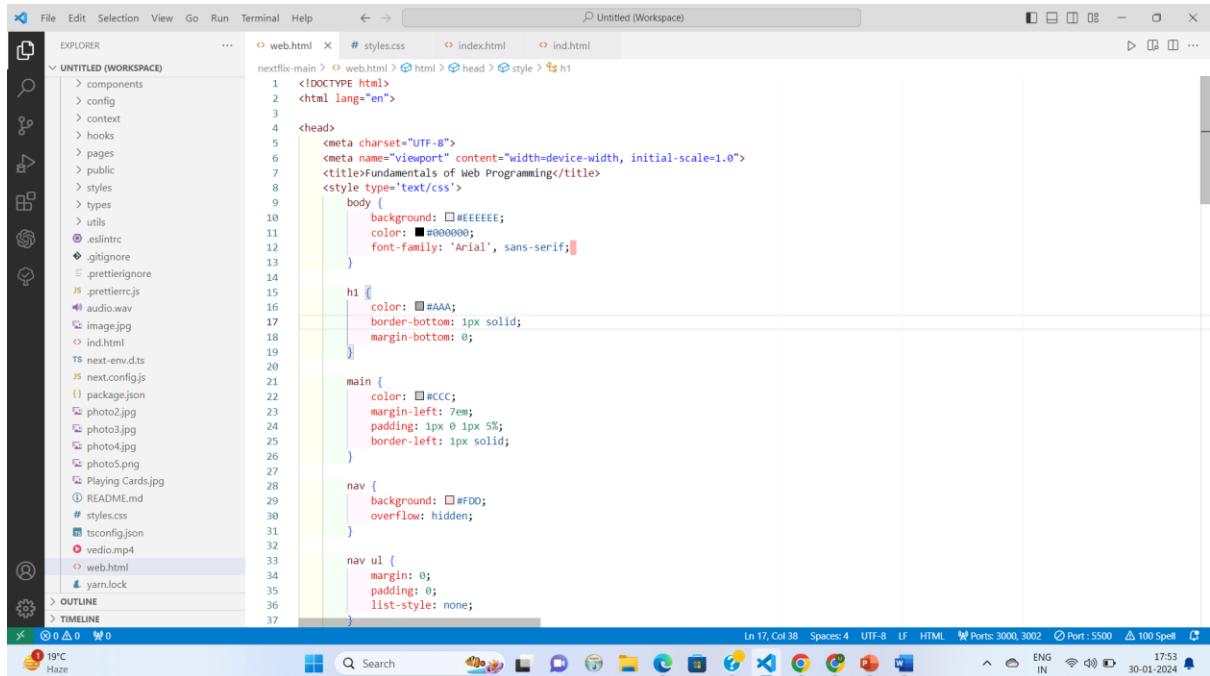
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="styles.css">
    <title>Udhanshu Singh - Favourite Teams</title>
  </head>
  <body>
    <header>
      <nav>
        <ul>
          <li><a href="index.html">Home</a></li>
          <li><a href="hobbies.html">Hobbies</a></li>
          <li><a href="teams.html">Teams</a></li>
        </ul>
      </nav>
    </header>
    <main>
      <section class="main-content">
        <h1>Welcome to Utsav Favourite Teams</h1>
        <p>Cricket is my favourite sport. Cricket is a sport that is widely played across the globe and it is played by everyone irrespective of their age. I play cricket every day in the evening with my neighbourhood friends. Although we don't obey the rules of cricket.</p>
      </section>
    </main>
    <footer>
      <p>© 2024 Utsav. All rights reserved.</p>
    </footer>
  </body>
</html>
```
- Explorer View:** Shows files like components, config, context, hooks, pages, public, styles, types, utils, .eslintrc, .gitignore, .prettierrc.js, audio.wav, image.jpg, ind.html, next-env.d.ts, next.config.js, package.json, photo2.jpg, photo3.jpg, photo4.jpg, photo5.png, Playing Cards.jpg, README.md, styles.css, tsconfig.json, vedio.mp4, web.html, and yarn.lock.
- Bottom Status Bar:** Shows system information including temperature (19°C), weather (Haze), battery level, network status, and system date (30-01-2024).

```
nextflix-main > # styles.css > footer
1 body, h1, h2, h3, p, ul, li {
2     margin: 0;
3     padding: 0;
4 }
5
6 body {
7     font-family: 'Arial', sans-serif;
8 }
9
10 header {
11     background-color: #333;
12     color: #fff;
13     padding: 10px;
14     position: fixed;
15     width: 100%;
16     top: 0;
17     z-index: 1000;
18 }
19
20 nav ul {
21     list-style-type: none;
22 }
23
24 nav ul li {
25     display: inline;
26     margin-right: 20px;
27 }
28
29 nav a {
30     text-decoration: none;
31     color: #fff;
32 }
33
34 main {
35     margin-top: 60px; /* Adjust margin to account for fixed navbar */
36 }
37
```

```
nextflix-main > # styles.css > footer
23
24 nav ul li {
25     display: inline;
26     margin-right: 20px;
27 }
28
29 nav a {
30     text-decoration: none;
31     color: #fff;
32 }
33
34 main {
35     margin-top: 60px; /* Adjust margin to account for fixed navbar */
36 }
37
38 .main-content {
39     max-width: 800px;
40     margin: 0 auto;
41     padding: 20px;
42 }
43
44 footer {
45     background-color: #333;
46     color: #fff;
47     padding: 10px;
48     position: fixed;
49     bottom: 0;
50     width: 100%;
51 }
```



## Task 8)



The screenshot shows a code editor interface with the following details:

- File Path:** nextflix-main > web.html > # styles.css
- Content:** CSS styles for a navigation bar, specifically targeting `nav li` and its submenus.
- Code Snippet:**

```
37 nav li {  
38   float: left;  
39   position: relative;  
40   list-style: none;  
41   margin: 0;  
42   border-right: 1px solid #CCC;  
43 }  
44  
45 nav ul ul {  
46   display: none;  
47   position: absolute;  
48   top: 100%;  
49   left: 0;  
50 }  
51  
52 nav li:hover {  
53   background: #6F99F2;  
54 }  
55  
56 nav li.submenu {  
57   background: url(https://runestone.academy/ns/books/published/webfundamentals/\_static/submenu.gif) 95% 50% no-repeat;  
58 }  
59  
60 nav li.submenu:hover {  
61   background-color: #EDD;  
62 }  
63  
64 nav li:hover>ul {  
65   display: inherit;  
66 }  
67  
68 nav li a {  
69   display: block;  
70   padding: 0.25em 1em;  
71   text-decoration: none;  
72 }  
73
```

- Bottom Status Bar:** Shows file paths (next-env.d.ts, next.config.js, package.json), ports (3000, 3002), and a port number (5500).

The screenshot shows a code editor interface with the following details:

- File Path:** nextflix-main > web.html > # styles.css
- Content:** HTML structure for a navigation bar, including a main navigation and a submenu.
- Code Snippet:**

```
69 <head>  
70   <style>  
71     nav li a {  
72       display: block;  
73       padding: 0.25em 1em;  
74       text-decoration: none;  
75     }  
76   </style>  
77 </head>  
78 <body>  
79   <h1>Fundamentals of Web Programming</h1>  
80   <nav>  
81     <ul class='level1'>  
82       <li><a href='/'>Home</a></li>  
83       <li class='submenu'><a href="#">Syllabus</a>  
84         <ul class='level2'>  
85           <li><a href="#">Text Book</a></li>  
86           <li><a href="#">Office Hours</a></li>  
87           <li><a href="#">Grading Policy</a></li>  
88           <li><a href="#">Learning Goals</a></li>  
89         </ul>  
90       </li>  
91     </ul>  
92     <li><a href="#">Resources</a></li>  
93     <li class='submenu'><a href="#">Publications</a>  
94       <ul class='level2'>  
95         <li><a href="#">Articles</a></li>  
96         <li class='submenu'><a href="#">Tutorials</a>  
97           <ul class='level3'>  
98             <li><a href="#">HTML</a></li>  
99             <li><a href="#">CSS</a></li>  
100            <li><a href="#">SVG</a></li>  
101            <li><a href="#">XML</a></li>  
102          </ul>  
103        </li>  
104      <li><a href="#">Assignments</a></li>  
105    </ul>
```

- Bottom Status Bar:** Shows file paths (next-env.d.ts, next.config.js, package.json), ports (3000, 3002), and a port number (5500).

The screenshot shows a code editor interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Toolbar:** Standard Windows-style toolbar with icons for file operations.
- Search Bar:** Untitled (Workspace).
- Left Sidebar (Explorer):** Untitled (Workspace) folder containing files like components, config, context, hooks, pages, public, styles, types, utils, .eslintrc, .gitignore, .prettierignore, .audio.wav, .image.jpg, .ind.html, .next-env.d.ts, .next.config.js, package.json, photo2.jpg, photo3.jpg, photo4.jpg, photo5.png, Playing Cards.jpg, README.md, #styles.css, tsconfig.json, vedio.mp4, web.html, and yarn.lock.
- Code Editor:** The main area displays the content of the `web.html` file. The code includes a navigation menu with categories like Learning Goals, Resources, Publications, Articles, Tutorials, XML, Assignments, Contact, and a large block of placeholder text (Lorem ipsum).
- Bottom Status Bar:** Shows line 17, column 38, spaces: 4, tabs: 0, line feed: LF, HTML, ports: 3000, 3002, port: 5500, 100 Spell, and system status (ENG IN, 17:53, 30-01-2024).

The screenshot shows a web browser window with the following details:

- Address Bar:** 127.0.0.1:5500/web.html
- Tab Bar:** You are signed in as 22cs3065, MSN India | Breaking News, Eng, You are signed in as 22cs3065, MSN India | Breaking News, Eng, Fundamentals of Web Programming.
- Content Area:** The page title is "Fundamentals of Web Programming". The page content includes a navigation bar with Home, Syllabus, Resources, Publications, and Contact links. Below the navigation bar is a large block of placeholder text (Lorem ipsum).
- Bottom Status Bar:** Shows 19°C Haze, standard Windows-style toolbar, and system status (ENG IN, 17:53, 30-01-2024).