BCSE203E-WEB PROGRAMMING

Winter Semester 2024-2025

EXERCISE-4

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Problem 1

https://www.w3schools.com/css/css3_animations.asp

HTML Code:

```
<!DOCTYPE html>

<html>

  <head>

    <style>

      .square{

        display: flex;
```

```css
        background-color:  red;

        width: 80px;

        height: 50px;

        border-radius: 5px;

        font-size: 30px;

        color: white;

        justify-content: center;

        align-items: center;

        animation-name: mov;

        animation-duration: 4s;
    }
    @keyframes mov{

        0%{transform: rotate(0deg); translate: 0px;background-color: red;}

        25%{transform: rotate(30deg);translate: 0px;background-color: orangered}

        50%{transform: rotate(0deg);translate: 400px;background-color: aqua;}

        100%{transform: rotate(-360deg);translate: 0px;background-color: orange;}
    }
    </style>
  </head>
  <body>
    <div class="square">CSS</div>
  </body>
 </html>
```
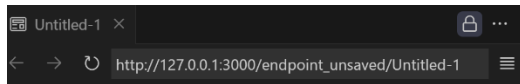
Output:

Problem 2

Infinite circular rotation following a square path

HTML Code:

```html
<!DOCTYPE html>

<html>

  <head>

    <style>

      .circle {

        width: 100px;

        height: 100px;

        background-color: orange;

        animation: sq;

        animation-duration: 4s;

        animation-iteration-count: infinite;

      }

      @keyframes sq {

        0%{transform: translate(0px,0px) rotate(-360deg);}

        25%{transform: translate(300px,0px) rotate(-180deg);}

        50%{transform: translate(300px,300px) rotate(0deg) ;}

        75%{transform: translate(0px,300px) rotate(180deg);}

        100%{transform: translate(0px,0px) rotate(360deg);}

      }
```

```
        </style>

    </head>

    <body>

        <div class="circle"></div>

    </body>

</html>
```

Output:

Problem 3

HTML Code:
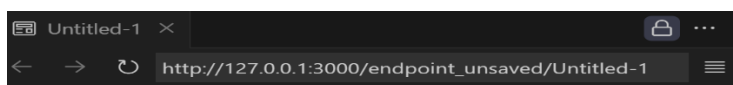
```
<!DOCTYPE html>

<html>

<head>

    <style>

        body {

            display: flex;

            justify-content: center;
```

```css
      align-items: center;

      height: 100vh;

      background-color: white;

    }

    .container {

      position: relative;

      width: 100px;

      height: 100px;

    }

    .square {

      position: absolute;

      width: 100px;

      height: 100px;

      background-color: black;

      border: 2px solid grey;

      animation: rotate 2s linear infinite;

      opacity: 0;

    }

    @keyframes rotate {

      0% { transform: rotate(0deg); opacity: 1; }

      100% { transform: rotate(360deg); opacity: 1; }

    }

    .square:nth-child(1) { animation-delay: 0s; }

    .square:nth-child(2) { animation-delay: 0.2s; }

    .square:nth-child(3) { animation-delay: 0.4s; }

    .square:nth-child(4) { animation-delay: 0.6s; }

  </style>

</head>

<body>

  <div class="container">
```
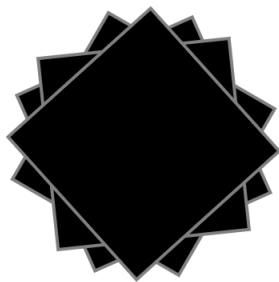
```html
        <div class="square"></div>

        <div class="square"></div>

        <div class="square"></div>

        <div class="square"></div>

    </div>

</body>

</html>
```

Output:

Problem 4:

HTML CODE:

```html
<!DOCTYPE html>

<html>

<head>

    <style>

        * {

            margin: 0;

            padding: 0;
```

```css
    box-sizing: border-box;

    font-family: Arial, sans-serif;

}


body {

    background-color: #f4f4f4;

}


.header {

    background-color: #f04e40;

    color: white;

    text-align: center;

    padding: 20px;

    font-size: 24px;

    font-weight: bold;

}


.navbar {

    background-color: #2980b9;

    display: flex;

    justify-content: center;

    padding: 10px;

}


.navbar a {

    color: white;

    text-decoration: none;

    font-size: 18px;

    font-weight: bold;

    padding: 10px 15px;
```

```css
    }

    .navbar a:hover {

        background-color: #1c5a80;

        border-radius: 5px;

    }


    .container {

        display: grid;

        grid-template-columns: 2fr 1fr;

        gap: 10px;

        padding: 10px;

    }


    .main-content {

        display: flex;

        flex-direction: column;

        gap: 10px;

    }


    .main-section {

        background-color: #2ecc71;

        padding: 20px;

        color: white;

        font-size: 20px;

        font-weight: bold;

    }


    .article {

        background-color: #9b59b6;
```

```css
        padding: 20px;

        color: white;

        font-size: 20px;

        font-weight: bold;

      }


      .sidebar {

        background-color: #f39c12;

        padding: 20px;

        color: white;

        font-size: 20px;

        font-weight: bold;

        display: flex;

        flex-direction: column;

        justify-content: center;

      }


      .footer {

        background-color: #2c3e50;

        color: white;

        text-align: center;

        padding: 15px;

        margin-top: 10px;

      }
    </style>
</head>
<body>
  <header class="header">
    <h1>Web Programming</h1>
  </header>
```

```html
<nav class="navbar">

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

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

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

</nav>


<main class="container">

  <div class="main-content">

    <section class="main-section">

      <h2>Main Section</h2>

      <p>This is the main content of the page.</p>

    </section>


    <article class="article">

      <h2>Article</h2>

      <p>This is a standalone article related to the main content.</p>

    </article>

  </div>


  <aside class="sidebar">

    <h2>Sidebar</h2>

    <p>This is the sidebar, containing related links or ads.</p>

  </aside>

</main>


<footer class="footer">

  <p>© 2025 Your Company. All rights reserved.</p>

</footer>

</body>
```

```
</html>
```

Output:

Web Programming

Home   About   Contact

Main Section
This is the main content of the page.

Sidebar
This is the sidebar, containing related links or ads.

Article
This is a standalone article related to the main content.

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