Web Programming

Exercise - 4

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Q1. https://www.w3schools.com/css/css3_animations.asp

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Animation</title>
    <style>
        body{
            display: flex;
            align-items: center;
            height: 50vh;
            margin: 0;
        }

        div{
            width: 200px;
            height: 100px;
            border: 5px solid black;
            border-radius: 25px;
            background-color: red;
            position: relative;
            animation: mymove 5s infinite;

        }

        @keyframes mymove{
            0% { transform: translateX(0) rotatez(0deg); }
            10% { transform: translateX(0) rotatez(30deg); }
            50% { transform: translateX(1000px) rotatez(0deg);background-color: rgb(111,
185, 222); }
            100% { transform: translateX(0) rotatez(-360deg) ;background-color:rgb(169,
194, 86); }
        }
    </style>
</head>
<body>
    <div>
        <h1 style="text-align: center;">CSS</h1>
    </div>
</body>
</html>
```

CSS

CSS

CSS

Q2.

Infinite circular rotation following a square path

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Infinite Circular Rotation on Square Path</title>
    <style>
        body{
            height: 100vh;
            background-color: purple;
            background: linear-gradient(rgb(233, 28, 62), rgb(1, 196, 255));
        }
        div {
            width: 100px;
            height: 100px;
            background-color: whitesmoke;
            position: absolute;
            top: 25%;
            left: 25%;
            animation: rotate 4s linear infinite;
            border: 5px solid black;
            border-radius: 25px;
        }

        @keyframes rotate {
            0% {
                transform: translate(0px) rotateZ(0deg);
            }
            25% {
                transform: translate(400px, 0px) rotateZ(360deg);
            }
            50% {
                transform: translate(400px, 400px) rotateZ(720deg);
            }
            75% {
                transform: translate(0px, 400px) rotateZ(1080deg);
            }
            100% {
                transform:  translate(0px,0px) rotateZ(1440deg);
            }
        }
    </style>
</head>
<body>
    <div>

    </div>
</body>
</html>
```
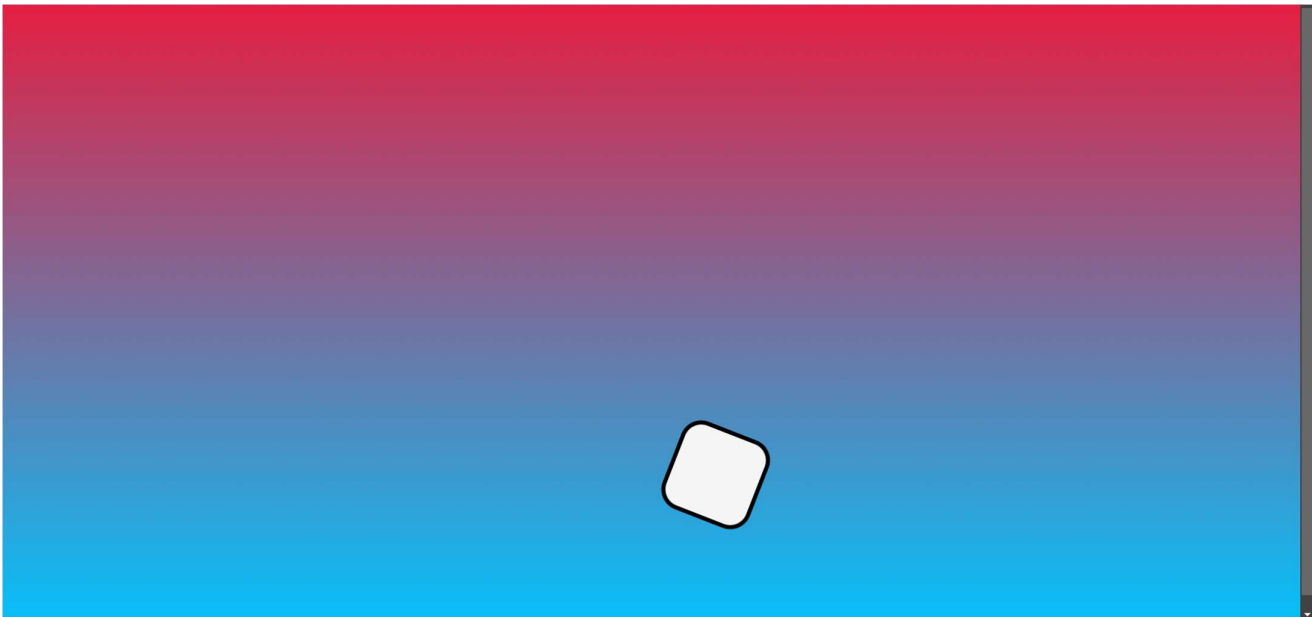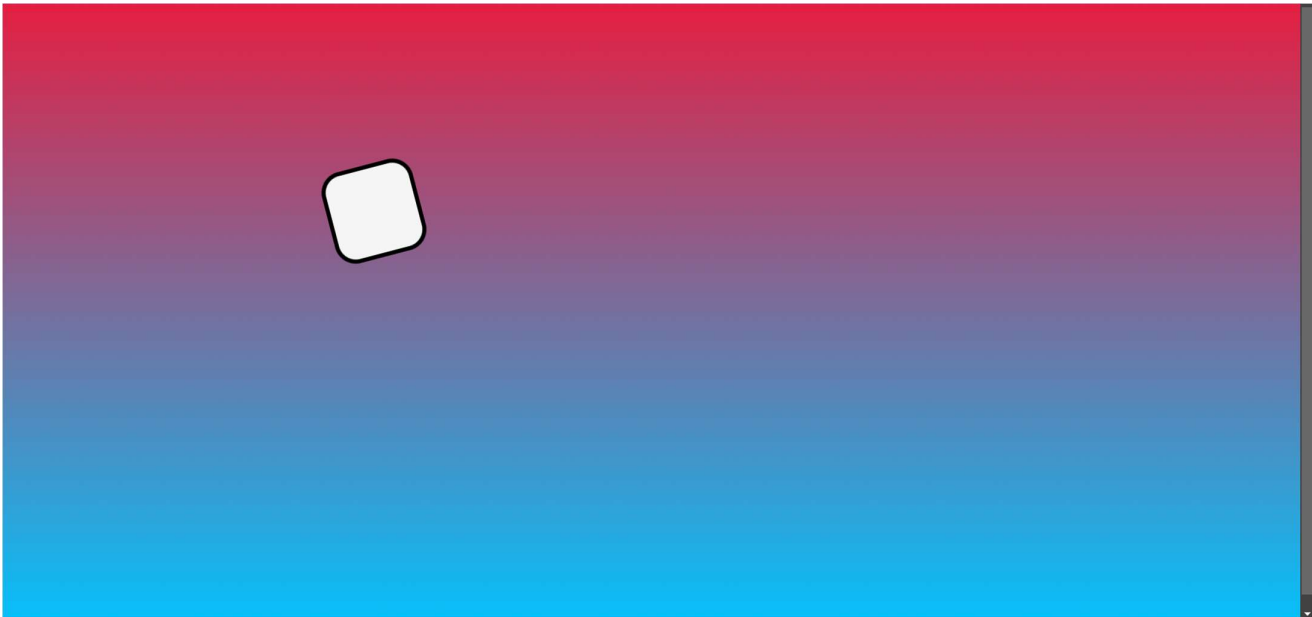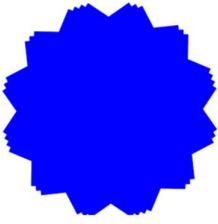
Q3.


```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Pattern</title>
    <style>
        body{
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            background: linear-gradient(rgb(255, 153, 0), rgb(255, 255, 255), rgb(0, 255, 38));
        }
        .structure {

            display: flex;
            justify-content: center;
            align-items: center;
            animation: rotate 4s infinite linear;
        }
        .box{
            width: 200px;
            height: 200px;
            background-color: blue;
            position: absolute;
        }
        .div1{
            transform: rotate(-6deg);
        }
        .div2{
            transform: rotate(-3deg);
        }
        .div3{
            transform: rotate(0deg);
        }
        .div4{
            transform: rotate(24deg);
        }
        .div5{
            transform: rotate(27deg);
        }
        .div6{
            transform: rotate(30deg);
```

```
        }
        .div7{
            transform: rotate(54deg);
        }
        .div8{
            transform: rotate(57deg);
        }
        .div9{
            transform: rotate(60deg);
        }

        @keyframes rotate{
            from{transform: rotateZ(0deg);}
            to{transform: rotateZ(360deg);}
        }

    </style>
</head>
<body>
    <div>
        <div class="structure">
            <div class="box div1"></div>
            <div class="box div2"></div>
            <div class="box div3"></div>
            <div class="box div4"></div>
            <div class="box div5"></div>
            <div class="box div6"></div>
            <div class="box div7"></div>
            <div class="box div8"></div>
            <div class="box div9"></div>
        </div>

</body>
</html>
```
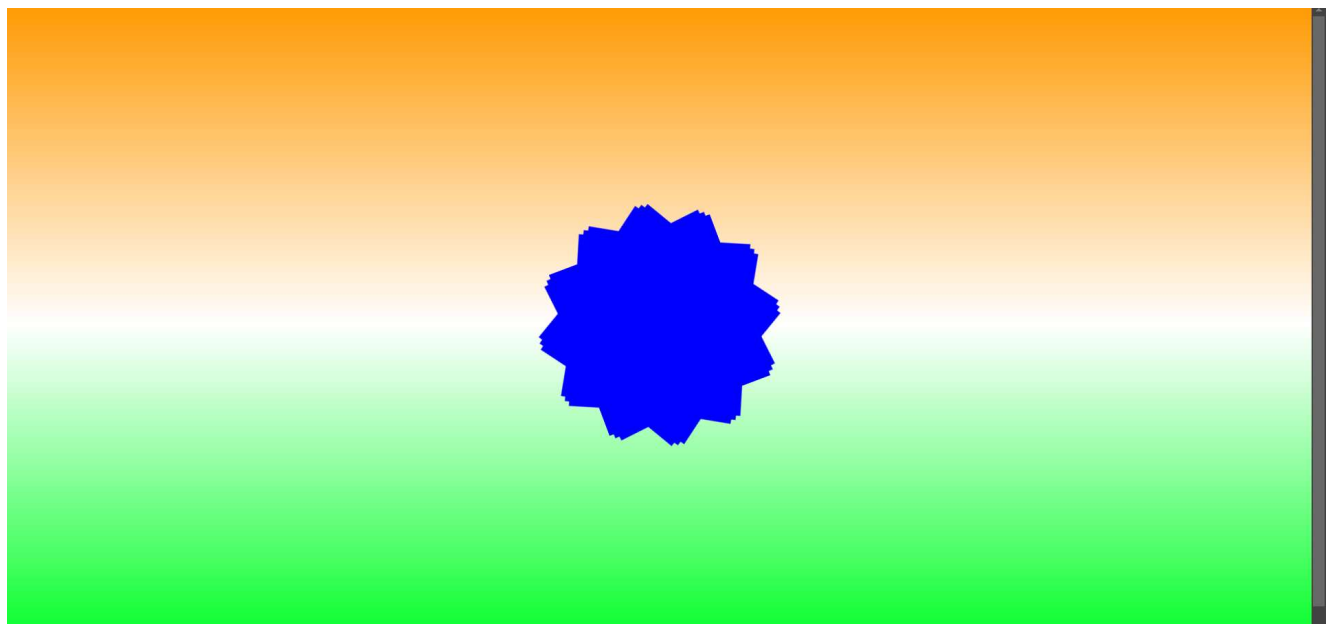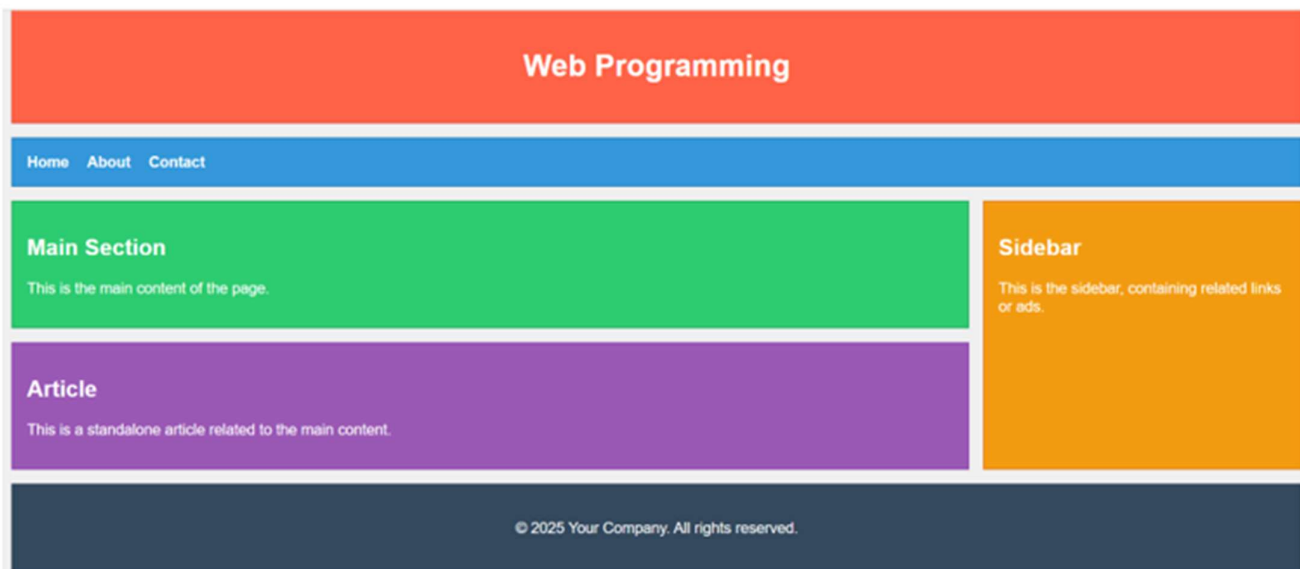
Q4.


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>GRID</title>
    <style>
        .grid-container {
            display: grid;
            grid-template-columns: auto;
            grid-template-rows: 150px 80px 150px 150px 50px;
            gap: 10px;
            background-color: darkslategray;
            padding: 10px;
            margin: 5px;
            color: white;
        }

        .Heading {
            grid-column: 1 / 4;
            background-color: orangered;
            text-align: center;
            padding: 10px;
        }

        .Navbar {
            grid-column: 1 / 4;
            background-color: skyblue;
            text-align: left;
            padding: 10px;
        }

        .Main {
            grid-column: 1 / 3;
            background-color: lightgreen;
```

```css
            text-align: left;
            padding: 10px;
        }

        .Sidebar {
            grid-column: 3 / 4;
            grid-row: 3 / 5;
            background-color: orange;
            text-align: left;
            padding: 10px;
        }

        .Article {
            grid-column: 1 / 3;
            background-color: purple;
            text-align: left;
            padding: 10px;
        }

        .Footer {
            grid-column: 1 / 4;
            background-color: gray;
            text-align: center;
            padding: 10px;
        }
    </style>
</head>
<body>
    <div class="grid-container">
        <div class="Heading"><h2>Web Programming</h2></div>
        <div class="Navbar"><h2>Home <span style="padding-left: 10px;">About</span> <span
style="padding-left: 10px;">Contact</span> </h2></div>
        <div class="Main">
            <h2>Main Section</h2>
            <p>This is the Main Section of the page.</p>
        </div>
        <div class="Sidebar">
            <h2>Sidebar</h2>
            <p>This is the Sidebar, containing main links and ads.</p>
        </div>
        <div class="Article">
            <h2>Article</h2>
            <p>This is the standalone article related to the main content.</p>
        </div>
        <div class="Footer"><p>&copy; AMAN.  All rights reserved. &trade;</p></div>
    </div>
</body>
</html>
```

Web Programming

Home **About** **Contact**

Main Section

This is the Main Section of the page.

Sidebar

This is the Sidebar, containing main links and ads.

Article

This is the standalone article related to the main content.