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Web Exercise-4

1)

Code:

```
<!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: pink;
      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: aquamarine;
}
100% {
    transform: translateX(0) rotateZ(-360deg);
    background-color: violet;
}
}
</style>
</head>
<body>
    <div>
        <h1 style="text-align: center;">CSS</h1>
    </div>
</body>
</html>
```

Output:



CSS

2)

Code:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
div {
```

```
  width: 100px;
```

```
  height: 100px;
```

```
  background-color: red;
```

```
  position: relative;
```

```
  animation-name: example;
```

```
  animation-duration: 4s;
```

```
  animation-iteration-count: infinite;
```

```
}
```

```
@keyframes example {
```

```
  0% {background-color:red; left:0px; top:0px;}
```

```
  25% {background-color:yellow; left:200px; top:0px;}
```

```
  50% {background-color:blue; left:200px; top:200px;}
```

```
  75% {background-color:green; left:0px; top:200px;}
```

```
  100% {background-color:red; left:0px; top:0px;}
```

```
}
```

```
</style>
```

```
</head>
<body>

<h1>CSS Animation Nikhil</h1>

<div></div>

</body>
</html>
```

Output:

CSS Animation Nikhil



CSS Animation Nikhil



CSS Animation Nikhil

CSS Animation Nikhil



3)

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Rotating Structure</title>
  <style>
    .structure {
      position: absolute;
      top: 200px;
      left: 200px;
      width: 200px;
      height: 200px;
      animation: rotate 4s linear infinite;
    }

    .box {
      width: 200px;
      height: 200px;
      background-color: blue;
      position: absolute;
    }

    .box1 { transform: rotate(0deg); }
    .box2 { transform: rotate(-3deg); }
    .box3 { transform: rotate(-6deg); }
    .box4 { transform: rotate(30deg); }
    .box5 { transform: rotate(27deg); }
    .box6 { transform: rotate(24deg); }
    .box7 { transform: rotate(60deg); }
```

```
.box8 { transform: rotate(57deg); }

.box9 { transform: rotate(54deg); }


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

</style>
</head>
<body>

  <div class="structure">

    <div class="box box1"></div>

    <div class="box box2"></div>

    <div class="box box3"></div>

    <div class="box box4"></div>

    <div class="box box5"></div>

    <div class="box box6"></div>

    <div class="box box7"></div>

    <div class="box box8"></div>

    <div class="box box9"></div>

  </div>

</body>
</html>
```

Output:



4)

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Web Programming</title>
  <style>
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
    }

    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
    }

    /* Header */
    header {
```

```
background-color: #ff6347;
color: white;
text-align: center;
padding: 20px;
font-size: 24px;
font-weight: bold;
}
```

```
/* Navigation Bar */
```

```
nav {
    background-color: #3498db;
    padding: 10px;
    text-align: center;
}
```

```
nav a {
    color: white;
    text-decoration: none;
    margin: 15px;
    font-size: 18px;
    display: inline-block;
}
```

```
/* Main Container */
```

```
.container {
    width: 80%;
    margin: 20px auto;
    display: grid;
    grid-template-columns: 2fr 1fr;
    grid-template-rows: auto auto;
    gap: 10px;
}
```



```
/* Main Section */
```

```
.main-section {  
    background-color: #2ecc71;  
    color: white;  
    padding: 20px;  
    min-height: 150px;  
    grid-column: 1;  
    grid-row: 1;  
}
```

```
/* Sidebar */
```

```
.sidebar {  
    background-color: #e67e22;  
    color: white;  
    padding: 20px;  
    min-height: 150px;  
    grid-column: 2;  
    grid-row: 1/3;  
}
```

```
/* Article Section */
```

```
.article {  
    background-color: #9b59b6;  
    color: white;  
    padding: 20px;  
    grid-column: 1;  
    grid-row: 2;  
}
```

```
/* Footer */
```

```
footer {
```

```
background-color: #34495e;
color: white;
text-align: center;
padding: 15px;
margin-top: 10px;
}

/* Responsive Design */
@media (max-width: 768px) {
    .container {
        display: flex;
        flex-direction: column;
    }

    .main-section, .sidebar, .article {
        width: 100%;
    }
}

</style>
</head>
<body>

<header>Web Programming</header>

<nav>
    <a href="#">Home</a>
    <a href="#">About</a>
    <a href="#">Contact</a>
</nav>

<div class="container">
    <section class="main-section">
```

<h2>Main Section</h2>

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

</section>

<aside class="sidebar">

<h2>Sidebar</h2>

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

</aside>

<section class="article">

<h2>Article</h2>

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

</section>

</div>

<footer>© 2025 Nikhil. All rights reserved.</footer>

</body>

</html>

Output:

