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**Vellore Institute of Technology**  
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CHENNAI

# WEB PROGRAMMING LAB

**BCSE203E**

**SLOT: L11 + L12 + L1G + L20**

## LAB MANUAL

**Exercise 4**

**Date: 09-02-2025**

Animated Box: w3schools

Infinite circular rotation following a square path

Spinning Star

Structured C Responsive Web Design

[using HTML and CSS]

**SUBMITTED TO:**

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## GITHUB REPO LINK:

[https://github.com/divyanshupatel17/23BAI1214\\_WEB\\_LAB](https://github.com/divyanshupatel17/23BAI1214_WEB_LAB)

## WEB PROG LAB PORTFOLIO:

<https://23bai1214-divyanshu-web-lab-portfolio.netlify.app/>

WEB PROGRAMMING LAB

### Student Details

Divyanshu Patel 23BAI1214 Web Programming Lab L11 + L12 + L19 + L20 PROF. DR. ASHOKA RAJAN R VIT University divyanshu.patel2023@vitstudenta

**Total Exercises**  
2

**Total Tasks**  
6

**Last Updated**  
1/12/2025

### Exercises

#### Exercise 1

Submitted: 1/10/2025

Exercise Report: [View Report](#)

Task No.	Title	Code	Demo
1	LEAVE LETTER	<a href="#">HTML</a> <a href="#">CSS</a> <a href="#">JS</a>	<a href="#">View Demo</a>
2	TABLE LAYOUT	<a href="#">HTML</a> <a href="#">CSS</a> <a href="#">JS</a>	<a href="#">View Demo</a>
3	CHESS BOARD	<a href="#">HTML</a> <a href="#">CSS</a> <a href="#">JS</a>	<a href="#">View Demo</a>

#### Exercise 2

Submitted: 1/12/2025

Last updated: 1/12/2025

## QUE 1. Animated Box: w3schools

<https://23bai1214-divyanshu-exercise-4-t1.netlify.app/>

```
<!-- 1. Animated Box: w3schools -->

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Question 1</title>
    <style>
      #text {
        font-size: 20px;
        font-family: "Lucida Sans", "Lucida Sans Regular", "Lucida Grande", "Lucida Sans Unicode", Geneva, Verdana, sans-serif;
      }
      #block {
        margin: 20px;
        display: flex;
        align-items: center;
        justify-content: center;
        height: 40px;
        width: 65px;
        color: aliceblue;
        background-color: #92b901;
        border-radius: 3px;
        animation-name: block-animation;
        animation-duration: 5s;
        animation-iteration-count: infinite;
      }
      @keyframes block-animation {
        0% {
          background-color: #92b901;
        }
        20% {
          transform: rotate(20deg);
          background-color: #059862;
        }
        50% {
          transform: translateX(500px);
          background-color: #24c6db;
        }
        100% {
          transform: translateX(0px) rotate(-360deg);
          background-color: #92b901;
        }
      }
    </style>
  </head>
  <body>
```

```

<div id="block">
  <div id="text">
    CSS
  </div>
</div>
<div class="me" style="margin-top: 90px;">Divyanshu Patel (23BAI1214)</div>
</body>
</html>

```



## QUE 2. Infinite Circular Rotation following a Square Path

<https://23bai1214-divyanshu-exercise-4-tt2.netlify.app/>

```

<!-- 2. Infinite circular rotation following a square path -->

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Square Path Rotation</title>
  <style>
    body {
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background-color: #111;
    }
  </style>

```

```
}

.container {
  position: relative;
  width: 400px;
  height: 400px;
}

.box {
  width: 50px;
  height: 35px;
  background-color: red;
  position: absolute;
  top: 0;
  left: 0;
  border-radius: 0px;
  animation: moveSquare 6s linear infinite, rotateBox 1s linear infinite;
}

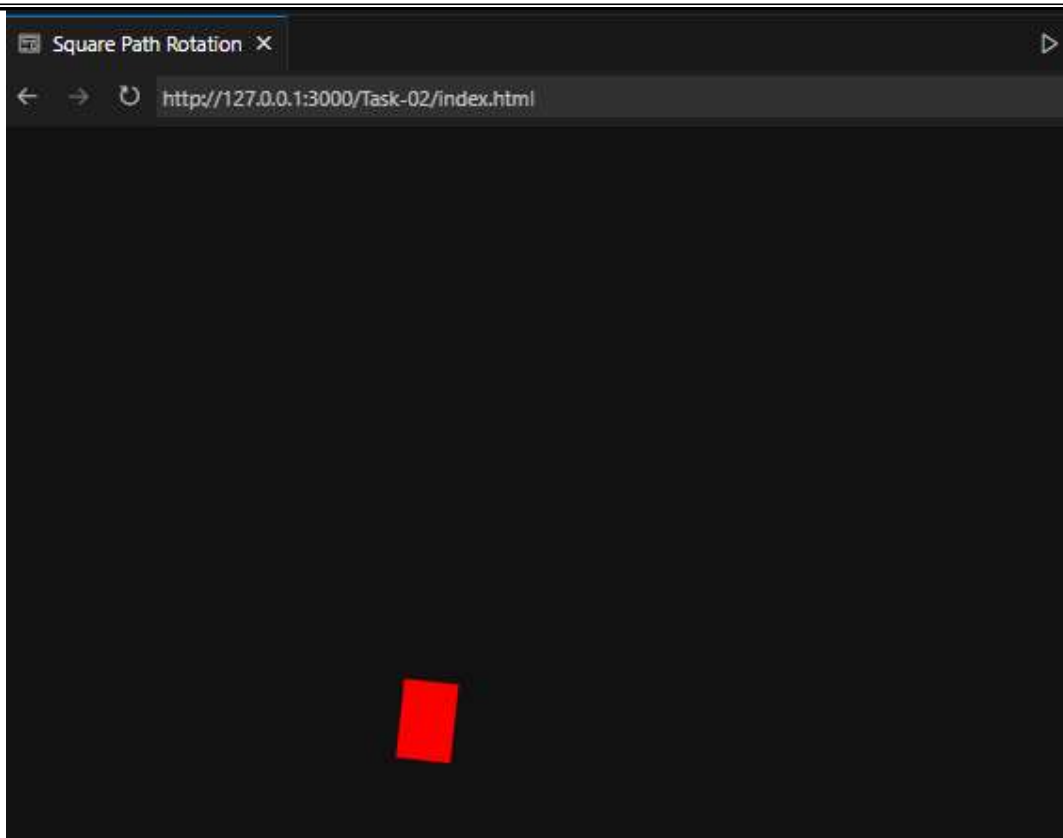
@keyframes moveSquare {
  0%   { top: 0; left: 0; }
  25%  { top: 0; left: 100%; }
  50%  { top: 100%; left: 100%; }
  75%  { top: 100%; left: 0; }
  100% { top: 0; left: 0; }
}

@keyframes rotateBox {
  0% { transform: rotate(0deg); }
  100% { transform: rotate(360deg); }
}

</style>
</head>
<body>

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

</body>
</html>
```



### QUE 3. Spinning Star

<https://23bai1214-divyanshu-exercise-4-t-3.netlify.app/>

```
<!-- 3. Spinning Star -->

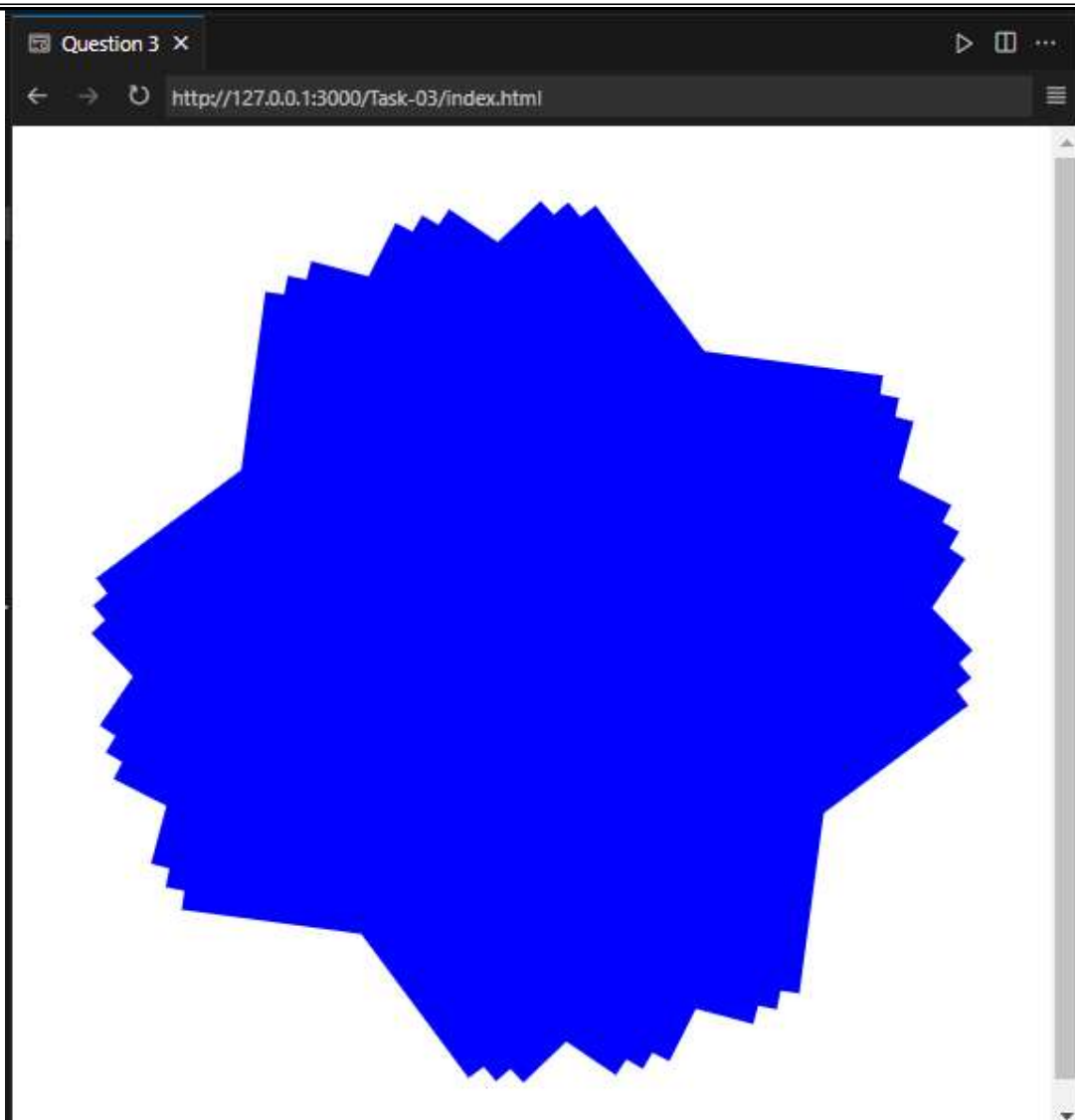
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Question 3</title>
    <style>
      body {
        min-height: 100vh;
        display: flex;
        justify-content: center;
        align-items: center;
        background: rgb(255, 255, 255);
      }

      .block1,
      .block2,
      .block3 {
        position: absolute;
        width: 400px;
        height: 400px;
        background-color: blue;
      }
    </style>
  </head>
  <body>
    <div class="block1">
      <div class="triangle">
        <div class="triangle1"></div>
        <div class="triangle2"></div>
        <div class="triangle3"></div>
      </div>
    </div>
    <div class="block2">
      <div class="triangle">
        <div class="triangle1"></div>
        <div class="triangle2"></div>
        <div class="triangle3"></div>
      </div>
    </div>
    <div class="block3">
      <div class="triangle">
        <div class="triangle1"></div>
        <div class="triangle2"></div>
        <div class="triangle3"></div>
      </div>
    </div>
  </body>
</html>
```

```
        z-index: calc(10 - var(--i));
        animation-name: block-animation;
        animation-timing-function: linear;
        animation-iteration-count: infinite;
        animation-duration: 3s;
    }

    .block1 {
        animation-delay: calc(var(--i) * 0.03s);
    }
    .block2 {
        animation-delay: calc(var(--i) * 0.03s + 0.5s);
    }
    .block3 {
        animation-delay: calc(var(--i) * 0.03s + 1s);
    }

    @keyframes block-animation {
        0% {
            transform: rotate(0deg);
        }
        100% {
            transform: rotate(360deg);
        }
    }
</style>
</head>
<body>
    <div class="block1" style="--i: 1;"></div>
    <div class="block1" style="--i: 2;"></div>
    <div class="block1" style="--i: 3;"></div>
    <div class="block2" style="--i: 4;"></div>
    <div class="block2" style="--i: 5;"></div>
    <div class="block2" style="--i: 6;"></div>
    <div class="block3" style="--i: 7;"></div>
    <div class="block3" style="--i: 8;"></div>
    <div class="block3" style="--i: 9;"></div>
</body>
</html>
```



## QUE 4. Structured & Responsive Web Design

<https://23bai1214-divyanshu-exercise-4t4.netlify.app/>

```
<!-- 4. Structured & Responsive Web Design -->

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Question 4</title>
<style>
body {
  margin: 0;
  height: 100vh;
  color: aliceblue;
```



```
font-family: 'Lucida Sans', Geneva, Verdana, sans-serif;
display: grid;
grid-template-columns: repeat(5, 1fr);
grid-template-rows: 20vh 10vh 30vh 30vh 10vh;
grid-template-areas:
    "h h h h h"
    "n n n n n"
    "m m m m sb"
    "a a a a sb"
    "f f f f f";
}

.header, .footer {
    display: flex;
    justify-content: center;
    align-items: center;
    text-align: center;
    font-weight: bold;
    font-size: 30px;
    border: 5px solid white;
}

.header {
    background-color: #ff6347;
    grid-area: h;
}

.footer {
    background-color: #34495e;
    grid-area: f;
}

.navbar {
    background-color: #3498db;
    grid-area: n;
    display: flex;
    justify-content: flex-start;
    align-items: center;
}

.nav-items {
    gap: 20px;
    font-weight: bold;
    margin-left: 20px;
}

.sidebar {
    display: flex;
    flex-direction: column;
    background-color: #f39c12;
    grid-area: sb;
    border: 5px solid white;
}
```

```

.main, .article {
  display: flex;
  flex-direction: column;
  justify-content: flex-start;
  align-items: flex-start;
  border: 5px solid white;
  padding: 15px;
}

.main {
  background-color: #2ecc71;
  grid-area: m;
}

.article {
  background-color: #9b59b6;
  grid-area: a;
}

.heading {
  font-size: 20px;
  font-weight: bold;
  margin-bottom: 10px;
}

.text {
  text-align: left;
}
</style>
</head>
<body>
  <div class="header">Web Programming</div>
  <div class="navbar">
    <div class="nav-items">Home</div>
    <div class="nav-items">About</div>
    <div class="nav-items">Contact</div>
  </div>
  <div class="sidebar">
    <div class="heading">Sidebar</div>
    <div class="text">This is the sidebar, containing related links or ads.</div>
  </div>
  <div class="main">
    <div class="heading">Main Section</div>
    <div class="text">This is the main content of the page.</div>
  </div>
  <div class="article">
    <div class="heading">Article</div>
    <div class="text">This is a standalone article related to the main content.</div>
  </div>
  <div class="footer">&copy; 2025 Your Company. All rights reserved.</div>
</body>
</html>

```

# Web Programming

[Home](#) [About](#) [Contact](#)

## Main Section

This is the main content of the page.

## Article

This is a standalone article related to the main content.

## Sidebar

This is the sidebar, containing related links or ads.

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