

**BCSE203E – Web Programming Lab**  
**Winter Semester 2024 – 2025**

**ASSESSMENT – 4**

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## Question 1

```
<!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>

</body>
</html>
```

## **OUTPUT**



## Question 2

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Question 2</title>

  <style>

    body {
      background-color: bisque;
    }

    #block {
      height: 40px;
      width: 65px;
      margin: 20px;
      background-color: black;
      border-radius: 5px;
      animation-name: block-animation;
      animation-duration: 10s;
      animation-iteration-count: infinite;
    }

    @keyframes block-animation {
      0% {
        transform: translateX(0px)translateY(0px)rotate(-360deg);
      }

      25% {
        transform: translateX(500px)translateY(0px)rotate(360deg);
      }

      50% {
        transform: translateX(500px)translateY(500px)rotate(-360deg);
      }

      75% {
        transform: translateX(0px)translateY(500px)rotate(360deg);
      }

      100% {
        transform: translateX(0px)translateY(0px)rotate(-360deg);
      }
    }

  </style>
</head>

<body>
  <div id="block"></div>
</body>
</html>
```

## OUTPUT



### Question 3

```
<!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: beige;
    }

    .block1 {
      position: absolute;
      width: 400px;
      height: 400px;
      background-color: black;
      z-index: calc(10 - var(--i));
      animation-name: block-animation;
      animation-timing-function: linear;
      animation-iteration-count: infinite;
      animation-delay: calc(var(--i)*0.03s);
      animation-duration: 3s;
    }

    .block2 {
      position: absolute;
      width: 400px;
      height: 400px;
      background-color: black;
      z-index: calc(10 - var(--i));
      animation-name: block-animation;
      animation-timing-function: linear;
      animation-iteration-count: infinite;
      animation-delay: calc(var(--i)*0.03s + 0.5s);
      animation-duration: 3s;
    }

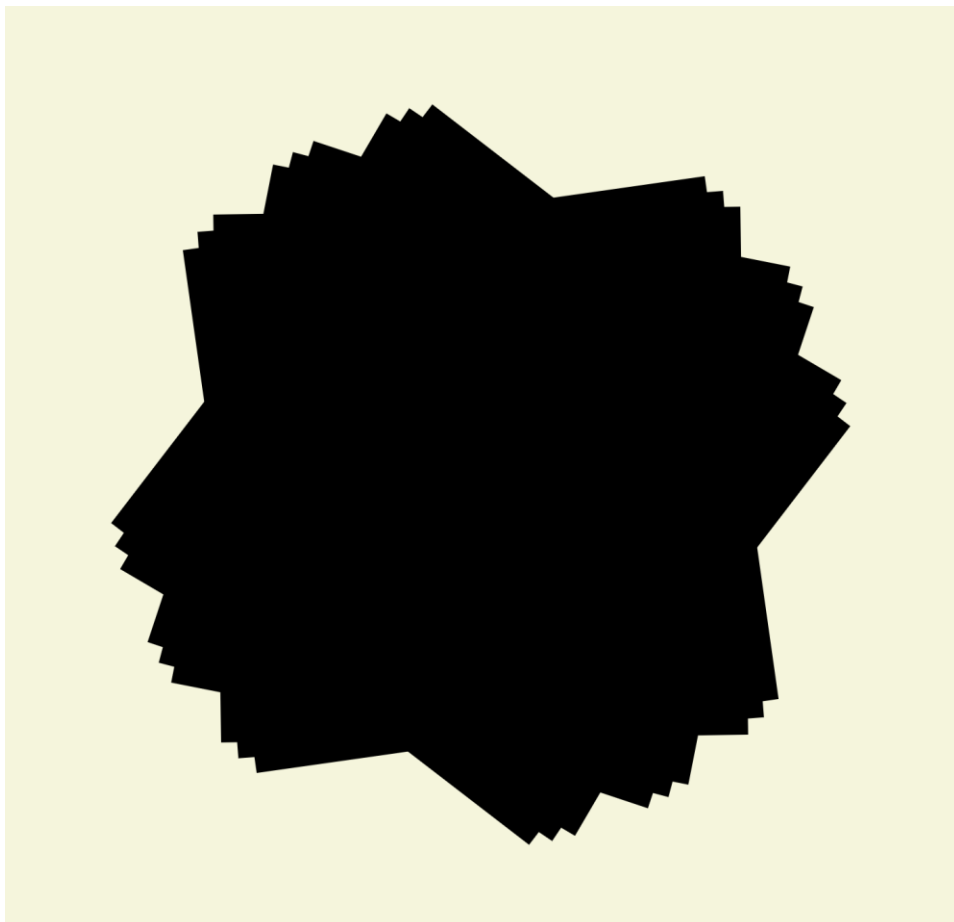
    .block3 {
      position: absolute;
      width: 400px;
      height: 400px;
      background-color: black;
      z-index: calc(10 - var(--i));
      animation-name: block-animation;
      animation-timing-function: linear;
      animation-iteration-count: infinite;
      animation-delay: calc(var(--i)*0.03s + 1s);
      animation-duration: 3s;
    }
  </style>
</head>
<body>
  <div class="block1"></div>
  <div class="block2"></div>
  <div class="block3"></div>
</body>
</html>
```

```
@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>
```

## **OUTPUT**



#### Question 4

```
<!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', 'Lucida Sans Regular', 'Lucida Grande', 'Lucida Sans Unicode', Geneva,
Verdana, sans-serif;
    }

    .container {
      display: grid;
      grid-template-columns: 1fr 1fr 1fr 1fr 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 {
      display: flex;
      justify-content: center;
      align-items: center;
      font-weight: bold;
      font-size: 30px;
      border: 5px solid white;
      background-color: #ff6347;
      grid-area: h;
    }

    .navbar {
      display: flex;
      align-items: center;
      border: 5px solid white;
      background-color: #3498db;
      grid-area: n;
    }

    .nav-items {
      font-weight: bold;
      padding-left: 15px;
    }

    .sidebar {
      display: flex;
```



```
flex-direction: column;
justify-content: center;
background-color: #f39c12;
grid-area: sb;
border: 5px solid white;
}
```

```
.heading {
  font-size: 20px;
  font-weight: bold;
  padding-left: 15px;
}
```

```
.text {
  padding: 15px;
}
```

```
.main {
  display: flex;
  flex-direction: column;
  justify-content: center;
  border: 5px solid white;
  background-color: #2ecc71;
  grid-area: m;
}
```

```
.article {
  display: flex;
  flex-direction: column;
  justify-content: center;
  border: 5px solid white;
  background-color: #9b59b6;
  grid-area: a;
}
```

```
.footer {
  display: flex;
  justify-content: center;
  align-items: center;
  border: 5px solid white;
  background-color: #34495e;
  grid-area: f;
}
```

```
</style>
</head>
```

```
<body>
```

```
<div class="container">
```

```
<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>
</div>
```

</body>  
</html>

## OUTPUT

