

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  background: #111;
  color: #fff;
  padding-bottom: 80px;
}

h1, h2 {
  text-align: center;
  margin-top: 40px;
}

.section {
  padding: 40px 20px;
  border-bottom: 1px solid #333;
}

.demo-box {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 250px;
}

/* -----
   1. SLIDING / FLIP BUTTON
   ----- */
.flip-button {
  position: relative;
  display: inline-block;
  padding: 15px 30px;
  font-size: 1.2rem;
  font-weight: bold;
  color: white;
  background: linear-gradient(45deg, #ff5733, #ffbd33);
  border: none;
  border-radius: 8px;
  cursor: pointer;
  outline: none;
  perspective: 1000px;
  transition: transform 0.6s ease-in-out, background 0.3s ease-in-out;
}
```

```
.flip-button:hover {
  transform: rotateX(180deg);
  background: linear-gradient(45deg, #33ff57, #33ffbd);
}
```

```
.flip-button::before {
  content: "";
  position: absolute;
  top: 0;
  left: 0;
  right: 0;
  bottom: 0;
  background: rgba(0, 0, 0, 0.1);
  border-radius: 8px;
  transition: opacity 0.3s ease-in-out;
}
```

```
.flip-button:hover::before {
  opacity: 0;
}
```

```
/* -----
   2. BOUNCING BALL
   ----- */
```

```
@keyframes bounce {
  0%, 100% {
    transform: translateY(0);
  }

  50% {
    transform: translateY(-50px);
  }
}
```

```
.bouncing-ball {
  width: 120px;
  height: 120px;
  background-color: red;
  border-radius: 50%;
  animation: bounce 1s infinite ease-in-out;
}
```

```
/* -----
   3. FADE IN / OUT BOX
```

```

    ----- */
@keyframes fade {
  0% {
    opacity: 0;
  }

  100% {
    opacity: 1;
  }
}

.fade-box {
  width: 250px;
  height: 120px;
  background-color: green;
  animation: fade 2s alternate infinite ease-in-out;
}

/* -----
   4. LOADER SPINNER
   ----- */
@keyframes rotate {
  from {
    transform: rotate(0deg);
  }

  to {
    transform: rotate(360deg);
  }
}

.loader {
  width: 60px;
  height: 60px;
  border: 6px solid #555;
  border-top: 6px solid #00ff99;
  border-radius: 50%;
  animation: rotate 1s linear infinite;
}

```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>CSS Animation Lesson – Demo Page</title>
  <link rel="stylesheet" href="ani.css">
</head>

<body>

  <h1>CSS Animation Lesson – Demo Page</h1>

  <!-- SECTION 1 -->
  <div class="section">
    <h2>1. Hover Flip Animation (Transform + Transition)</h2>
    <p style="text-align:center;">This button uses <b>transform: rotateX()</b> and transitions
to flip in 3D when hovered.</p>
    <div class="demo-box">
      <button class="flip-button">Hover Me</button>
    </div>
  </div>

  <!-- SECTION 2 -->
  <div class="section">
    <h2>2. Bouncing Animation (Keyframes + Transform)</h2>
    <p style="text-align:center;">This ball uses a keyframe animation to move up and
down.</p>
    <div class="demo-box">
      <div class="bouncing-ball"></div>
    </div>
  </div>

  <!-- SECTION 3 -->
  <div class="section">
    <h2>3. Fade In / Out Animation (Opacity + Alternate)</h2>
    <p style="text-align:center;">This box fades in and out using opacity animation.</p>
    <div class="demo-box">
      <div class="fade-box"></div>
    </div>
  </div>

  <!-- SECTION 4 -->
  <div class="section">
```

```
<h2>4. Loading Spinner (Rotate Animation)</h2>
<p style="text-align:center;">This loader rotates infinitely using a linear animation.</p>
<div class="demo-box">
  <div class="loader"></div>
</div>
</div>
</body>
</html>
```