

Day 6 Lab Sheet – Transitions, Animations & Responsive Design

Objective

By the end of this lab, you will:

- Apply **CSS transitions** for smooth effects
 - Create **CSS animations** using keyframes
 - Use **transforms** to rotate, scale, and move elements
 - Build **responsive layouts** with media queries
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Task 1: Button Hover with Transition

1. Create day6_transition.html.
2. Add:

```
<button class="btn">Hover Me</button>
```

3. In style.css:

```
.btn {  
  background: blue;  
  color: white;  
  padding: 15px 30px;  
  border: none;  
  cursor: pointer;  
  transition: background 0.5s, transform 0.3s;  
}  
  
.btn:hover {  
  background: green;  
  transform: scale(1.1);  
}
```

✅ On hover, button color changes smoothly and grows slightly.

Task 2: Moving Box Animation

1. Create day6_animation.html.
2. Add:

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

3. In style.css:

```
.box {  
  position: relative;  
  width: 100px;  
  height: 100px;  
  background: red;  
  animation: moveBox 3s infinite alternate;  
}
```

```
@keyframes moveBox {  
  from { left: 0px; }  
  to { left: 300px; }  
}
```

✅ A red box moves back and forth across the screen.

Task 3: Bouncing Ball Animation

1. Add:

```
<div class="ball"></div>
```

2. In style.css:

```
.ball {  
  width: 80px;  
  height: 80px;  
  background: orange;  
  border-radius: 50%;  
  position: relative;  
  animation: bounce 1s infinite alternate;  
}
```

```
@keyframes bounce {  
  from { top: 0px; }  
  to { top: 200px; }
```

}

✅ The ball bounces up and down continuously.

Task 4: Transform Practice

1. Add:

```
<div class="transform-box">Transform Me</div>
```

2. In style.css:

```
.transform-box {  
  width: 200px;  
  height: 100px;  
  background: lightblue;  
  text-align: center;  
  line-height: 100px;  
  margin: 20px;  
  transition: transform 0.5s;  
}  
  
.transform-box:hover {  
  transform: rotate(15deg) scale(1.2);  
}
```

✅ On hover, the box rotates and enlarges.

Task 5: Responsive Card Layout

1. Create day6_responsive.html.

2. Add:

```
<div class="container">  
  <div class="card">Card 1</div>  
  <div class="card">Card 2</div>  
  <div class="card">Card 3</div>  
</div>
```

3. In style.css:

```
.container {
```

```
display: flex;
gap: 15px;
}
.card {
flex: 1;
padding: 20px;
background: lightgreen;
text-align: center;
transition: transform 0.3s;
}
.card:hover {
transform: scale(1.05);
}
```

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

- ✅ On desktop → 3 cards in a row.
- ✅ On mobile → stacked vertically.

Bonus Challenge 🎯

👉 Create a **Responsive Portfolio Page** that includes:

- Header with a title
- Navigation bar (horizontal on desktop, vertical on mobile)
- A grid of project cards with hover animation
- Footer

✅ Deliverables

- day6_transition.html + style.css
- day6_animation.html + style.css
- day6_responsive.html + style.css

Each file should open in a browser and show correct transitions, animations, and responsiveness.