**Objective :**

The objective of this project is to create a dynamic image slider using HTML, CSS, and JavaScript.

**Project Requirements:**

1. **HTML Structure**
   * Create a container for the image slider.
   * Include placeholders for images and navigation controls (e.g., previous/next buttons).
2. **CSS Styling**
   * Style the slider container and images.
   * Add transitions and animations for smooth sliding effects.
   * Ensure responsiveness for different screen sizes.
3. **JavaScript Functionality**
   * Implement logic for navigating between images.
   * Add auto-sliding functionality at a set interval.
   * Enable user interaction through navigation controls.

**Optional Enhancements:**

* **Thumbnail Navigation:** Add a row of thumbnails below the main slider to allow users to select images.
* **Captions & Descriptions:** Display a caption or description dynamically as the images change.
* **Touch/Swipe Support:** Implement touch/swipe gestures for mobile devices.
* **Fade Transitions:** Use fading instead of sliding for a different visual effect.

**Technologies to Use:**

* **HTML** for structure
* **CSS** for styling and animations
* **JavaScript** for interactivity

**Code :**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Image Slider</title>

<style>

\* { box-sizing: border-box; margin: 0; padding: 0; }

body { display: flex; justify-content: center; align-items: center; height: 100vh; background: #f4f4f4; }

.slider-container { position: relative; width: 80%; max-width: 600px; overflow: hidden; }

.slider { display: flex; transition: transform 0.5s ease-in-out; }

.slide { min-width: 100%; }

.slide img { width: 100%; border-radius: 10px; }

.prev, .next { position: absolute; top: 50%; transform: translateY(-50%); background: rgba(0,0,0,0.5); color: white; border: none; padding: 10px; cursor: pointer; }

.prev { left: 10px; }

.next { right: 10px; }

</style>

</head>

<body>

<div class="slider-container">

<div class="slider">

<div class="slide"><img src="https://via.placeholder.com/600x300/FF5733/fff?text=Image+1" alt="Image 1"></div>

<div class="slide"><img src="https://via.placeholder.com/600x300/33FF57/fff?text=Image+2" alt="Image 2"></div>

<div class="slide"><img src="https://via.placeholder.com/600x300/3357FF/fff?text=Image+3" alt="Image 3"></div>

</div>

<button class="prev" onclick="prevSlide()">&#10094;</button>

<button class="next" onclick="nextSlide()">&#10095;</button>

</div>

<script>

let index = 0;

const slides = document.querySelectorAll(".slide");

function showSlide(i) {

index = (i + slides.length) % slides.length;

document.querySelector(".slider").style.transform = `translateX(-${index \* 100}%)`;

}

function prevSlide() { showSlide(index - 1); }

function nextSlide() { showSlide(index + 1); }

setInterval(() => { nextSlide(); }, 3000); // Auto-slide every 3 seconds

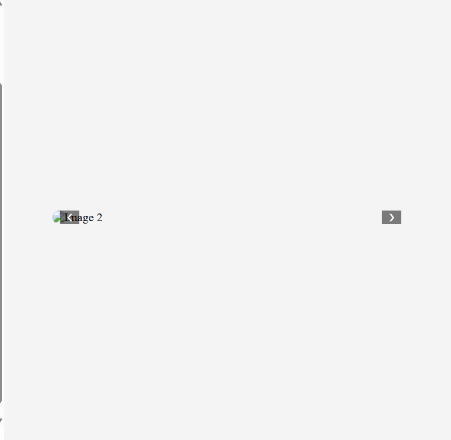
</script>

</body>

</html>

**Output:**

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