Infinite Carousel

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8"/>
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Infinite_carousel</title>
     .slider {
       height: 100px;
       margin: auto;
       overflow: hidden;
       position: relative;
       width: 100%;
     .slider::before.
     .slider::after {
       background: linear-gradient(to right, white 0%, rgba(255, 255, 255, 0)
100%);
       content: "":
       height: 100px;
       position: absolute;
       width: 200px;
       z-index: 2;
     .slider::after {
       right: 0;
       top: 0;
       transform: rotateZ(180deg);
     .slider::before {
       left: 0;
       top: 0;
     .slide-track {
```

```
-webkit-animation: scroll 40s linear infinite;
       animation: scroll 40s linear infinite:
       display: flex;
       width: calc(250px * 14);
    .slide {
       height: 100px;
       width: 250px;
     @keyframes scroll {
       0% {
         transform: translateX(0);
       100% {
         transform: translateX(calc(-250px * 7));
  </style>
</head>
<body>
  <div class="slider">
    <div class="slide-track">
       <div class="slide">
         <img src="img/366356.jpg" height="100" width="250" alt="" />
       </div>
       <div class="slide">
         <img src="img/525340.webp" height="100" width="250" alt="" />
       </div>
       <div class="slide">
         <img src="img/620432.jpg" height="100" width="250" alt="" />
       </div>
    </div>
  </div>
</body>
</html>
```

HTML Code:

1. Document Type Declaration (<!DOCTYPE html>):

• Defines the document type and version of HTML being used.

2. HTML Structure:

- <html lang="en">: Specifies that the document is written in English.
- Contains metadata about the HTML document, such as character set, viewport settings, and the title of the page.
- <meta charset="UTF-8">: Sets the character set to UTF-8.
- <meta name="viewport" content="width=device-width,
 initial-scale=1.0"> Configures the viewport for responsive design.
- <title>Infinite Carousel</title>

 Sets the title of the HTML document.
- <style>: Contains CSS styles for the document.

CSS Styles:

3. Styles for the Slider Container (slider):

- **.slider**: Styles for the container of the carousel.
 - height: 100px; Sets the height of the slider.
 - margin: auto; Centers the slider horizontally.
 - overflow: hidden;
 Hides content that overflows the slider.
 - position: relative; Positions the slider relative to its normal position.
 - width: 100%; Sets the width of the slider to 100% of the container.

4. Pseudo-elements for Gradient Overlay (slider::before and slider::after):

- [.slider::before, .slider::after]: Pseudo-elements for creating a gradient overlay on both sides of the slider.
 - background: linear-gradient(to right, white 0%, rgba(255, 255, 255, 0) 100%);
 Creates a horizontal gradient from white to transparent.
 - content: ""; Generates content for the pseudo-elements.
 - height: 100px; Sets the height of the pseudo-elements.
 - position: absolute; Positions the pseudo-elements absolutely within the slider.

- width: 200px; Sets the width of the pseudo-elements.
- **z-index**: 2;: Places the pseudo-elements above the slide track.

5. Styling for slider::after:

- .slider::after: Additional styling for the pseudo-element after.
 - right: 0;: Positions the pseudo-element to the right of the slider.
 - top: 0; Positions the pseudo-element at the top of the slider.
 - transform: rotateZ(180deg); Rotates the pseudo-element by 180 degrees.

6. **Styling for** slider::before:

- [.slider::before]: Additional styling for the pseudo-element before.
 - **left:** 0; Positions the pseudo-element to the left of the slider.
 - top: 0; Positions the pseudo-element at the top of the slider.

7. Slide Track Animation (slide-track):

- .slide-track: Container for the individual slides and animation.
 - -webkit-animation: scroll 40s linear infinite;
 Applies the scroll animation to the slide track for webkit browsers.
 - animation: scroll 40s linear infinite; Applies the scroll animation to the slide track.
 - display: flex; Configures the container as a flex container.
 - width: calc(250px * 14); Sets the width of the slide track to accommodate all slides.

8. Individual Slide Styles (slide):

- slide: Styles for each individual slide.
 - height: 100px; Sets the height of each slide.
 - width: 250px; Sets the width of each slide.

9. Keyframes for Scroll Animation (@keyframes scroll):

- Defines keyframes for the scroll animation.
 - 0%: Initial state of the animation.
 - 100%: Final state of the animation.
 - transform: translateX(0); Initial position of the slide track.
 - transform: translateX(calc(-250px * 7)); Final position of the slide track, creating the scrolling effect.

HTML Body:

- 10. Slider Container (<div class="slider">...</div>):
- Contains the slider with a track and individual slides.
- 11. Slide Track (<div class="slide-track">...</div>):
- Contains individual slides and is animated to create the scrolling effect.
- 12. Individual Slides (<div class="slide">...</div>):
- Each slide contains an image with a specified height and width.

Summary:

This code creates an infinite carousel with a scrolling effect using CSS animations. The individual slides are contained within a flex container, and a gradient overlay is applied on both sides of the slider to create a fading effect. The animation continuously scrolls through the slides, creating an infinite carousel effect.