CSS Transitions

1. **CSS Transition:**
   a. A transition occurs when a CSS property changes from one value to another value over a period of time.

2. **CSS Transition Properties:**
   a. Following are the CSS transition properties ⇒
      i. transition-property
      ii. transition-duration
      iii. transition-timing-function
      iv. transition-delay

3. **transition-property:**
   a. The *transition-property* property allows you to select the CSS properties that you want to animate during the transition(change).
   b. **Syntax**:

   ```
   transition-property: specific-property-name | all;
   ```

4. **transition-duration:**
   a. The *transition-duration* property in CSS specifies the duration over which a transition effect occurs.
   b. It defines how long it takes for a CSS property to change from one state to another.
   c. **Syntax**:

   ```
   transition-duration: time (in s or ms);
   ```

5. transition-timing-function:

a. The *transition-timing-function* property specifies the speed curve of the transition effect.

b. It determines how CSS properties change values over time during transitions.

c. This curve, or easing function, defines the rate of change, influencing the smoothness and perception of animation transitions on web elements.

d. **Syntax**:

```
transition-timing-function: linear => same speed
throught the the transition effect
ease(Default) => slow start, then fast, end slowly
ease-in => slow start
ease-out => slow end
ease-in-out => slow start and end
```

6. transition-delay:

a. The *transition-delay* provides the delay for the transition effect.

b. **Syntax**:

```
transition-delay: time (in s or ms);
```

7. transition (shorthand Property):

    a. We can directly use the shorthand property for transition for all the 4 values.

    b. **Syntax**:

```
transition: transition-property transition-duration transit
ion-timing-function transition-delay;
```

    c. **Example** ⇒

```
transition : all 0.5s linear 2s;
```