

## Part 2:

### 1. Interactivity

a) Button hover:

```
<button
  class="bg-black text-white py-3 px-5 rounded-lg m-3
  hover:bg-orange-500 hover:text-white"
>
  Submit
</button>
```

b) Focus:

```
<button
  class="bg-black text-white py-3 px-5 rounded-lg m-3
  focus:bg-green-500 focus:text-white"
>
  Submit
</button>
```

c) Active

```
<button
  class="bg-black text-white py-3 px-5 rounded-lg m-3
  active:bg-yellow-500 active:text-white"
>
  Submit
</button>
```

Styling based on Parent:

We create div with class of group:

```
<a
  href=""
  class="group block max-w-xs mx-auto rounded-lg p-6 bg-white
  shadow-lg space-y-3 hover:bg-sky-500"
>
  <h3 class="group-hover:text-white">Card Title</h3>
  <p class="group-hover:text-white">This is the card text</p>
</a>
```

## Pseudo classes:

```
<ul>
  <li class="first:bg-red-200 even:bg-green-500 odd:bg-orange-500">
    Item 1
  </li>
  <li class="first:bg-red-200 even:bg-green-500 odd:bg-orange-500">
    Item 2
  </li>
  <li class="first:bg-red-200 even:bg-green-500 odd:bg-orange-500">
    Item 3
  </li>
  <li class="first:bg-red-200 even:bg-green-500 odd:bg-orange-500">
```

## Appearance:

```
<!-- Appearance -->
<!-- Use appearance-none to reset any browser specific styling on
an element. This utility is often used when creating custom form
components. -->
```

For example if we have select box it can be render differently by Safari and chrome. So we apply appearance-none so browser default appearance is removed.

## Cursor:

```
<p class="cursor-pointer">Hello</p>
```

## Select text:

```
<!-- User Select -->
<div class="select-none">Lorem ipsum dolor sit amet.</div>
<div class="select-text">Lorem ipsum dolor sit amet.</div>
<div class="select-all">Lorem ipsum dolor sit amet.</div>
<div class="select-auto">Lorem ipsum dolor sit amet.</div>
```

## Smooth scrolling on page:

```
<html lang="en" class="scroll-smooth">
```

\*\*\*\*\*

## Breakpoints and media queries

<!-- Breakpoint Classes

```
sm 640px @media (min-width: 640px) { ... }
md 768px @media (min-width: 768px) { ... }
lg 1024px @media (min-width: 1024px) { ... }
xl 1280px @media (min-width: 1280px) { ... }
2xl 1536px @media (min-width: 1536px) { ... }
```

-->

```
<body
  class="bg-black sm:bg-green-800 md:bg-blue-800 lg:bg-yellow-800
  xl:bg-purple-800 2xl:bg-red-800"
>
```

\*\*\*\*\*

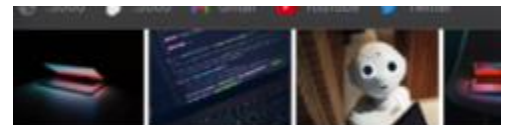
## Columns:

CSS Columns:

```
<!-- Columns -->
<div class="columns-2">
  
  
  
  
</div>
```



```
<!-- Columns -->
<div class="columns-4 gap-1">
  
  
  
  
</div>
```



Use Flexbox instead of this \*\*\*\*\*

## Flexbox

### <!-- Justify Content

```
justify-start    justify-content: flex-start;
justify-end      justify-content: flex-end;
justify-center   justify-content: center;
justify-between  justify-content: space-between;
justify-around   justify-content: space-around;
justify-evenly   justify-content: space-evenly;
-->
```

### <!--

```
items-start align-items: flex-start;
items-end align-items: flex-end;
items-center align-items: center;
items-baseline align-items: baseline;
items-stretch align-items: stretch;
-->
```

### <!-- Flex Direction

```
flex-row        flex-direction: row;
flex-row-reverse flex-direction: row-reverse;
flex-col         flex-direction: column;
flex-col-reverse flex-direction: column-reverse;
-->
```

### <!--

```
flex-wrap        flex-wrap: wrap;
flex-wrap-reverse flex-wrap: wrap-reverse;
flex-nowrap       flex-wrap: nowrap;
-->
```

### <!-- Flex Properties

```
flex-none    flex: none;
Prevent item from growing or shrinking

flex-initial flex: 0 1 auto;
Allow item to shrink but not grow, taking into account its initial size

flex-auto    flex: 1 1 auto;
Allow item to grow and shrink, taking into account its initial size

flex-1       flex: 1 1 0%;
Allow item to grow and shrink as needed, ignoring its initial size
-->
```

\*\*\*\*\*



# Grid

<!--

Grid Template Columns

```
grid-cols-1  grid-template-columns: repeat(1, minmax(0, 1fr));
grid-cols-2  grid-template-columns: repeat(2, minmax(0, 1fr));
grid-cols-3  grid-template-columns: repeat(3, minmax(0, 1fr));
grid-cols-4  grid-template-columns: repeat(4, minmax(0, 1fr));
grid-cols-5  grid-template-columns: repeat(5, minmax(0, 1fr));
grid-cols-6  grid-template-columns: repeat(6, minmax(0, 1fr));
grid-cols-7  grid-template-columns: repeat(7, minmax(0, 1fr));
grid-cols-8  grid-template-columns: repeat(8, minmax(0, 1fr));
grid-cols-9  grid-template-columns: repeat(9, minmax(0, 1fr));
grid-cols-10 grid-template-columns: repeat(10, minmax(0, 1fr));
grid-cols-11 grid-template-columns: repeat(11, minmax(0, 1fr));
grid-cols-12 grid-template-columns: repeat(12, minmax(0, 1fr));
grid-cols-none grid-template-columns: none;
```

-->

```
<div class="grid grid-cols-3 gap-2 grid-rows-6 bg-gray-300">
  <div class="p-10 border border-blue-600 bg-blue-100">Item 1</div>
  <div class="p-10 border border-blue-600 bg-blue-100">Item 2</div>
  <div class="p-10 border border-blue-600 bg-blue-100">Item 3</div>
```

<!-- Col and row span -->

```
<div class="grid grid-cols-3 gap-4 w-100 bg-gray-100">
  <div
    class="col-span-2 row-span-2 p-10 border border-blue-600 bg-blue-100"
  >
    01
  </div>
```

<!-- Grid Template Rows

```
grid-rows-1  grid-template-rows: repeat(1, minmax(0, 1fr));
grid-rows-2  grid-template-rows: repeat(2, minmax(0, 1fr));
grid-rows-3  grid-template-rows: repeat(3, minmax(0, 1fr));
grid-rows-4  grid-template-rows: repeat(4, minmax(0, 1fr));
grid-rows-5  grid-template-rows: repeat(5, minmax(0, 1fr));
grid-rows-6  grid-template-rows: repeat(6, minmax(0, 1fr));
grid-rows-none grid-template-rows: none;
```

-->

\*\*\*\*\*

## Transition

```
<!-- No Transition -->
<button
  class="px-8 py-2 m-24 text-white bg-blue-500 rounded
  hover:bg-blue-700"
>
  Click me
</button>

<!-- Transition -->
<button
  class="px-8 py-2 m-24 text-white bg-blue-500 rounded
  hover:bg-blue-700 transition-colors duration-1000"
>
  Click me
</button>
```

<!-- Transition Property

transition-none

transition-property: none;

transition-all => tailwind class

=> what it does

transition-property: all;

transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);

transition-duration: 150ms;

transition

transition-property: color, background-color, border-color,  
text-decoration-color, fill, stroke, opacity, box-shadow,  
transform, filter, backdrop-filter;

transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);

transition-duration: 150ms;

transition-colors

transition-property: color, background-color, border-color, text-decoration-color, fill, stroke;

transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);

transition-duration: 150ms;

transition-opacity

transition-property: opacity;

transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);

transition-duration: 150ms;

```
transition-shadow
transition-property: box-shadow;
transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);
transition-duration: 150ms;
```

```
transition-transform transition-property: transform;
transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);
transition-duration: 150ms;
```

```
<!--
```

```
Duration
```

```
duration-75  transition-duration: 75ms;
duration-100 transition-duration: 100ms;
duration-150 transition-duration: 150ms;
duration-200 transition-duration: 200ms;
duration-300 transition-duration: 300ms;
duration-500 transition-duration: 500ms;
duration-700 transition-duration: 700ms;
duration-1000 transition-duration: 1000ms;
```

```
-->
```

```
<!-- Timing Function
```

```
ease-linear  transition-timing-function: linear;
ease-in      transition-timing-function: cubic-bezier(0.4, 0, 1, 1);
ease-out     transition-timing-function: cubic-bezier(0, 0, 0.2, 1);
ease-in-out  transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);
```

```
-->
```

```
<!-- Delay
```

```
delay-75  transition-delay: 75ms;
delay-100 transition-delay: 100ms;
delay-150 transition-delay: 150ms;
delay-200 transition-delay: 200ms;
delay-300 transition-delay: 300ms;
delay-500 transition-delay: 500ms;
delay-700 transition-delay: 700ms;
delay-1000 transition-delay: 1000ms;
```

```
-->
```

## Transform

```

```

<!-- Rotate

```
rotate-0  transform: rotate(0deg);
rotate-1  transform: rotate(1deg);
rotate-2  transform: rotate(2deg);
rotate-3  transform: rotate(3deg);
rotate-6  transform: rotate(6deg);
rotate-12 transform: rotate(12deg);
rotate-45 transform: rotate(45deg);
rotate-90 transform: rotate(90deg);
rotate-180 transform: rotate(180deg);
```

-->

<!-- Scale

```
scale-0  transform: scale(0);
scale-x-0 transform: scaleX(0);
scale-y-0 transform: scaleY(0);
scale-50 transform: scale(.5);
scale-x-50 transform: scaleX(.5);
scale-y-50 transform: scaleY(.5);
scale-75 transform: scale(.75);
scale-x-75 transform: scaleX(.75);
```

<!-- Translate

```
translate-x-0 transform: translateX(0px);
translate-y-0 transform: translateY(0px);
translate-x-px transform: translateX(1px);
translate-y-px transform: translateY(1px);
translate-x-0.5 transform: translateX(0.125rem);
translate-y-0.5 transform: translateY(0.125rem);
translate-x-1 transform: translateX(0.25rem);
translate-y-1 transform: translateY(0.25rem);
translate-x-1.5 transform: translateX(0.375rem);
translate-y-1.5 transform: translateY(0.375rem);
translate-x-2 transform: translateX(0.5rem);
translate-y-2 transform: translateY(0.5rem);
translate-x-2.5 transform: translateX(0.625rem);
translate-y-2.5 transform: translateY(0.625rem);
translate-x-3 transform: translateX(0.75rem);
```

<!-- Skew

```
skew-x-0  transform: skewX(0deg);
skew-y-0  transform: skewY(0deg);
skew-x-1  transform: skewX(1deg);
skew-y-1  transform: skewY(1deg);
skew-x-2  transform: skewX(2deg);
```

!-- Transform Origin

```
origin-center transform-origin: center;
origin-top transform-origin: top;
origin-top-right transform-origin: top right;
origin-right transform-origin: right;
origin-bottom-right transform-origin: bottom right;
origin-bottom transform-origin: bottom;
origin-bottom-left transform-origin: bottom left;
origin-left transform-origin: left;
origin-top-left transform-origin: top left;
```

\*\*\*\*\*



Customize any default settings:

```
<script>
  tailwind.config = {
    theme: {
      extend: {
        transitionDuration: {
          2000: '2000ms'
        }
      }
    }
  }
</script>
```

Now use it :

```

```

\*\*\*\*\*

Animation:

```
<svg
  class="animate-ping w-48 text-white"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
>
```

We have different classes :

animate-none animation: none;

tailwind class=> animate-spin it does => animation: spin 1s linear infinite;

```
@keyframes spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}
```

```
animate-ping animation: ping 1s cubic-bezier(0, 0, 0.2, 1) infinite;
```

```
@keyframes ping {  
  75%, 100% {  
    transform: scale(2);  
    opacity: 0;  
  }  
}
```

```
animate-pulse animation: pulse 2s cubic-bezier(0.4, 0, 0.6, 1) infinite;
```

```
@keyframes pulse {  
  0%, 100% {  
    opacity: 1;  
  }  
  50% {  
    opacity: .5;  
  }  
}
```

```
animate-bounce animation: bounce 1s infinite;
```

```
@keyframes bounce {  
  0%, 100% {  
    transform: translateY(-25%);  
    animation-timing-function: cubic-bezier(0.8, 0, 1, 1);  
  }  
  50% {  
    transform: translateY(0);  
    animation-timing-function: cubic-bezier(0, 0, 0.2, 1);  
  }  
}  
-->
```

\*\*\*\*\*

## Configuration and Customization

We have file tailwind.config.js where we put our configuration.

But now we are using cdn so we put in head:

```
<script>
  tailwind.config = {
    theme: {
      screens: {
        sm: '550px',
        md: '800px',
        lg: '1200px',
        xl: '1440px'
      }
    }
  }
</script>
```

Here we replace defaults tailwind sizes but we can extend too meaning that k tailwind ki setting wohi rahy jo hamne change nahi ki:

```
<script>
  tailwind.config = {
    theme: {
      extend: {
        screens: {
          sm: '550px',
          md: '800px',
          lg: '1200px',
          xl: '1440px',
        },
      },
    },
  }
</script>
```

so 2xl bhi work kre ga yahan !

Setting fonts;

```
tailwind.config = {
  theme: {
    screens: {
      sm: '550px',
      md: '800px',
      lg: '1200px',
      xl: '1440px',
    },
    fontFamily: {
      sans: ['Graphik', 'sans-serif'],
      serif: ['Merriweather', 'serif']
    }
  }
}
```

Now extending colors:

```
fontFamily: {
  sans: ['Graphik', 'sans-serif'],
  serif: ['Merriweather', 'serif']
},
extend: {
  colors: {
    primary: '#ff5733',
    secondary: '#fffc33'
  }
},
```

Now use this primary color:

```
<h1 class="text-primary text-xl"></h1>
```

```
extend: {
  colors: {
    primary: '#ff5733',
    secondary: '#fffc33',
  },
  spacing: {
    6: '2.5rem'
  }
},
```

Adding more values:

```
spacing: {
  6: '2.5rem',
  128: '32rem',
},
```

Now use it:

```
<div class="border-secondary border p-6 mb-128">
  <h1 class="text-primary text-xl"></h1>
```

```
spacing: {
  6: '2.5rem',
  128: '32rem',
},
borderRadius: {
  '4xl': '2rem',
},
```

```
<div
  class="border-secondary border p-6 mb-128 max-w-sm mx-auto
  rounded-4xl"
>
```

\*\*\*\*\*

Dark Mode:

By default, you can have your project use whatever mode your OS is using. You can use "dark:{class}". You can also set your config to use a class instead of using your OS mode OS ka dark mode hoa to jo styles ham ne dark: me specify kiye hrn wo apply hoga:

```
<div
  class="container mx-auto mt-10 bg-white dark:bg-slate-900
  rounded-xl px-6 py-8 shadow xl"
>
  <h3 class="text-slate-900 dark:text-white font-medium
  tracking-tight">
    Lorem ipsum dolor sit.
  </h3>
  <p class="text-slate-500 dark:text-slate-400 mt-2 text-sm">
    Lorem ipsum dolor sit amet consectetur adipisicing elit.
    Doloribus
    placeat earum a exercitationem? Minima corrupti ad magni aut
    suscipit
    nulla voluptatem atque vitae fugit at.
  </p>
</div>
```



**Lorem ipsum dolor sit.**

Lorem ipsum dolor sit amet consectetur adipiscing elit.  
Doloribus placeat earum a exercitationem? Minima corrupti ad  
magni aut suscipit nulla voluptatem atque vitae fugit at.

Lorem ipsum dolor sit.  
 Lorem ipsum dolor sit amet consectetur adipisicing elit.  
 Doloribus placeat earum a exercitationem? Minima corrupti ad  
 magni aut suscipit nulla voluptatem atque vitae fugit at.

```
<html lang="en" class="dark">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <script src="https://cdn.tailwindcss.com"></script>
    <script>
      tailwind.config = {
        darkMode: 'class',
      }
    </script>
    <title>Dark Mode</title>
```