CSS FlexBox

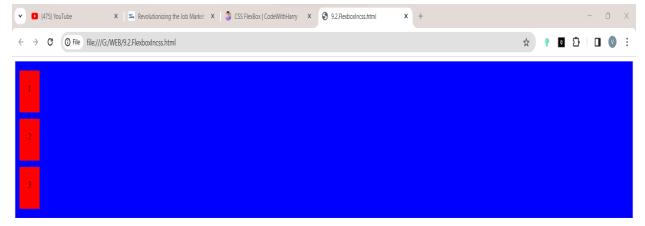
FlexBox aka Flexible Box Layout makes it easier to layout, align and style items in the container while maintaining the responsiveness of the website.

To create a flexbox you need to set the display of the container as flex Eg: {display: flex;}

This element is called the flex container, and stores the sub-elements which are known as flex items

```
<style>
    .background {
      background-color: □blue;
      padding-top: 5px;
      padding-bottom: 5px;
    .cubes {
      text-align: center;
      padding-top: 20px;
      height: 50px;
      width: 50px;
      background-color: 
    red;

      margin: 10px;
    }
</head>
<body>
  <div class="background">
    <div class="cubes">1</div>
<div class="cubes">2</div>
    <div class="cubes">3</div>
  </div>
</body>
```



Flex Container Properties

The flex container properties are:

1. Flex Direction

It defines in which direction the flex elements would be displayed. It takes values like row, column or "reverse" too.

1.COLUMN:

```
<style>
           .background {
             background-color: □blue;
             padding-top: 5px;
            padding-bottom: 5px;
        display: flex;
             flex-direction: column;
LØ
Ι1
           .cubes {
             text-align: center;
            padding-top: 20px;
L4
            height: 50px;
            width: 50px;
16
            background-color: ■red;
            margin: 10px;
19
        </style>
20
      </head>
      <body>
        <div class="background">
          <div class="cubes">1</div>
          <div class="cubes">2</div>
           <div class="cubes">3</div>
         </div>
    </html>
```

2.ROW

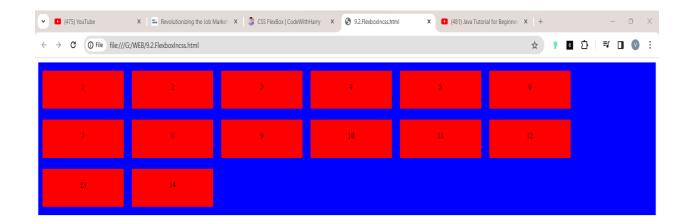
```
<style>
          .background {
            background-color: □blue;
            padding-top: 5px;
            padding-bottom: 5px;
        display: flex;
           flex-direction: row;
0
          .cubes {
            text-align: center;
            padding-top: 20px;
            height: 50px;
            width: 50px;
            background-color: ■red;
            margin: 10px;
        </style>
      <body>
        <div class="background">
          <div class="cubes">1</div>
          <div class="cubes">2</div>
          <div class="cubes">3</div>
        </div>
      </body>
```

2. Flex Wrap

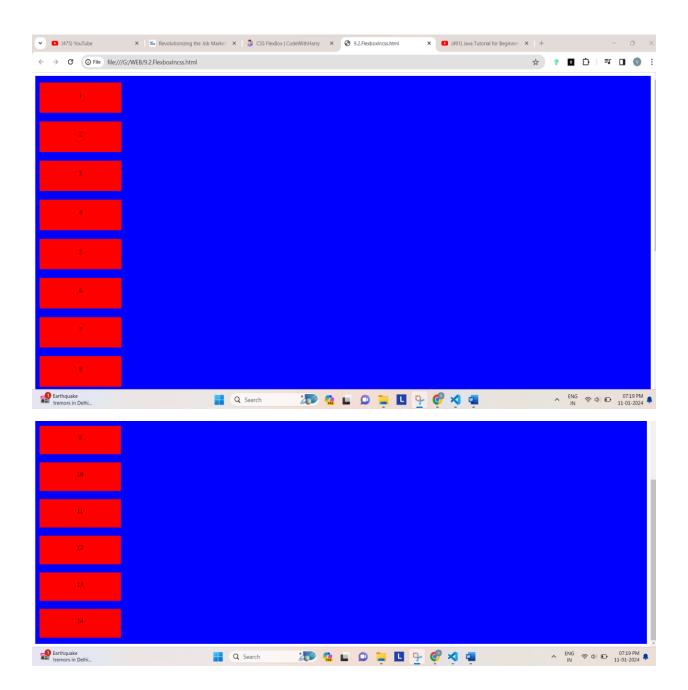
By using this property we can make our elements responsive for different screen sizes.

1.ROW

```
<style>
    .background {
     background-color: □blue;
     padding-top: 5px;
     padding-bottom: 5px;
     display: flex;
     lex-direction: row;
     flex-wrap: wrap;
    .cubes {
     text-align: center;
     padding-top: 20px;
     height: 50px;
     width: 200px;
     background-color: ■red;
     margin: 10px;
 </style>
</head>
<body>
 <div class="background">
   <div class="cubes">1</div>
   <div class="cubes">2</div>
    <div class="cubes">3</div>
   <div class="cubes">4</div>
   <div class="cubes">5</div>
   <div class="cubes">6</div>
   <div class="cubes">7</div>
    <div class="cubes">8</div>
   <div class="cubes">9</div>
   <div class="cubes">10</div>
   <div class="cubes">11</div>
   <div class="cubes">12</div>
    <div class="cubes">13</div>
    <div class="cubes">14</div>
  </div>
```



```
<style>
    .background {
      background-color: □blue;
      padding-top: 5px;
      padding-bottom: 5px;
      display: flex;
flex-direction: column;
    flex-wrap: wrap;
    .cubes {
      text-align: center;
      padding-top: 20px;
      height: 50px;
      width: 200px;
      background-color: ■red;
      margin: 10px;
  </style>
</head>
  <div class="background">
    <div class="cubes">1</div>
    <div class="cubes">2</div>
    <div class="cubes">3</div>
    <div class="cubes">4</div>
    <div class="cubes">5</div>
    <div class="cubes">6</div>
    <div class="cubes">7</div>
    <div class="cubes">8</div>
    <div class="cubes">9</div>
    <div class="cubes">10</div>
    <div class="cubes">11</div>
    <div class="cubes">12</div>
    <div class="cubes">13</div>
    <div class="cubes">14</div>
  </div>
```

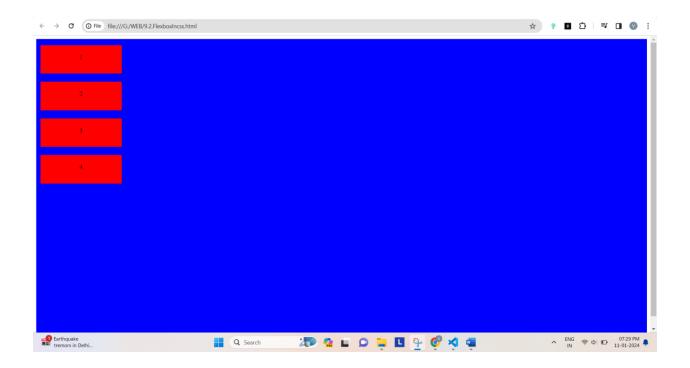


3. Justify Content

This property is used to set the position of content or rather align content along the main axis.

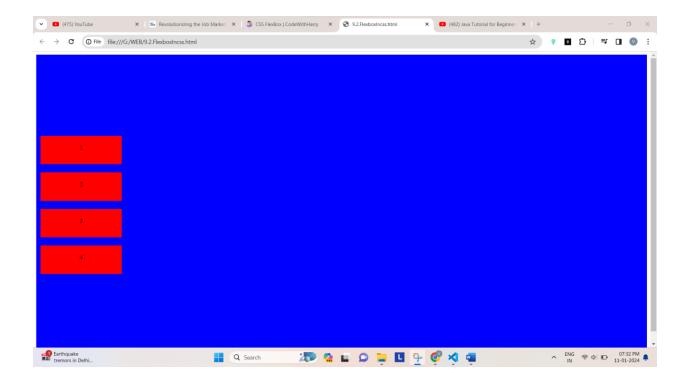
1.COLUMN START

```
<style>
     .background {
       background-color: □blue;
       height: 100vh;
       padding-top: 5px;
       padding-bottom: 5px;
       display: flex;
  flex-direction: column;
       justify-content: start;
     .cubes {
       text-align: center;
       padding-top: 20px;
       height: 50px;
       width: 200px;
       background-color: ■red;
       margin: 10px;
   </style>
 </head>
   <div class="background">
     <div class="cubes">1</div>
     <div class="cubes">2</div>
     <div class="cubes">3</div>
     <div class="cubes">4</div>
   </div>
 </body>
</html>
```



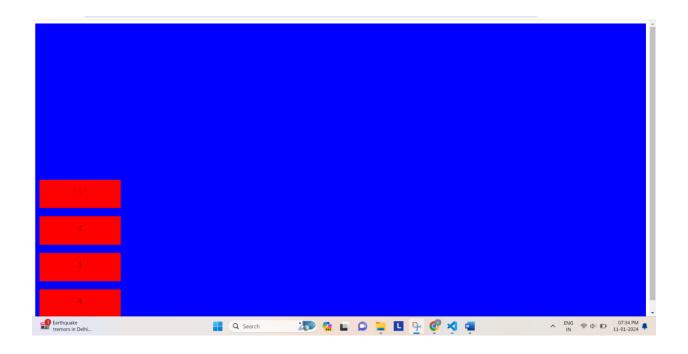
2.COLUMN-CENTER

```
<style>
    .background {
     background-color: □blue;
     height: 100vh;
      padding-top: 5px;
     padding-bottom: 5px;
      display: flex;
flex-direction: column; justify-content: center;
    .cubes {
     text-align: center;
     padding-top: 20px;
     height: 50px;
     width: 200px;
     background-color: ■red;
     margin: 10px;
</head>
<body>
 <div class="background">
   <div class="cubes">1</div>
   <div class="cubes">2</div>
    <div class="cubes">3</div>
   <div class="cubes">4</div>
 </div>
</body>
```



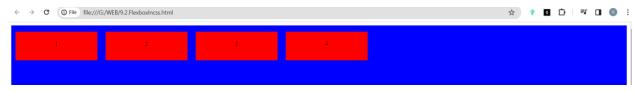
3.COLUMN-END

```
<style>
     .background {
       background-color: □blue;
       height: 100vh;
       padding-top: 5px;
       padding-bottom: 5px;
       display: flex;
   flex-direction: column;
     justify-content: end;
     .cubes {
       text-align: center;
       padding-top: 20px;
       height: 50px;
       width: 200px;
       background-color: ■red;
       margin: 10px;
   </style>
  </head>
   <div class="background">
     <div class="cubes">1</div>
     <div class="cubes">2</div>
     <div class="cubes">3</div>
     <div class="cubes">4</div>
    </div>
 </body>
</html>
```



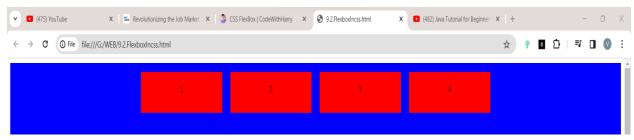
1.ROW-START

```
<style>
      .background {
       background-color: □blue;
       height: 100vh;
       padding-top: 5px;
       padding-bottom: 5px;
       display: flex;
      flex-direction: row;
       justify-content: start;
      .cubes {
       text-align: center;
       padding-top: 20px;
       height: 50px;
       width: 200px;
       background-color: ■red;
       margin: 10px;
   </style>
 </head>
   <div class="background">
     <div class="cubes">1</div>
     <div class="cubes">2</div>
     <div class="cubes">3</div>
     <div class="cubes">4</div>
    </div>
</html>
```



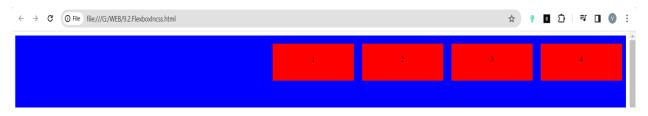
2.ROW-CENTER

```
<style>
      .background {
       background-color: ☐blue;
       height: 100vh;
       padding-top: 5px;
       padding-bottom: 5px;
       display: flex;
  flex-direction: row;
   justify-content: center;
     .cubes {
       text-align: center;
       padding-top: 20px;
       height: 50px;
       width: 200px;
       background-color: ■red;
       margin: 10px;
   </style>
 </head>
 <body>
   <div class="background">
     <div class="cubes">1</div>
     <div class="cubes">2</div>
     <div class="cubes">3</div>
     <div class="cubes">4</div>
   </div>
 </body>
</html>
```



3.ROW-END

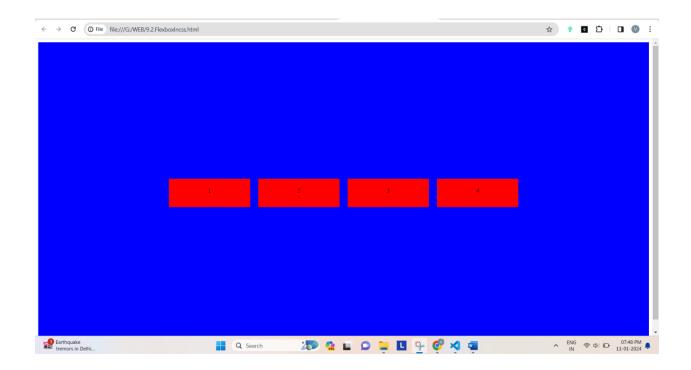
```
<style>
    .background {
      background-color: □blue;
      height: 100vh;
      padding-top: 5px;
     padding-bottom: 5px;
      display: flex;
flex-direction: row;
     justify-content: end;
    .cubes {
     text-align: center;
      padding-top: 20px;
      height: 50px;
     width: 200px;
     background-color: ■red;
     margin: 10px;
  </style>
</head>
  <div class="background">
   <div class="cubes">1</div>
    <div class="cubes">2</div>
   <div class="cubes">3</div>
   <div class="cubes">4</div>
 </div>
```



4. Align Items

Just like the justify-content property, align-items define the alignment of the flex container but along the cross-axis.

```
<style>
    .background {
      background-color: ☐blue;
      height: 100vh;
      padding-top: 5px;
      padding-bottom: 5px;
      display: flex;
     flex-direction: row;
      justify-content: center;
      align-items: center;
    .cubes {
      text-align: center;
      padding-top: 20px;
      height: 50px;
      width: 200px;
      background-color: ■red;
      margin: 10px;
  </style>
</head>
<body>
  <div class="background">
    <div class="cubes">1</div>
    <div class="cubes">2</div>
    <div class="cubes">3</div>
    <div class="cubes">4</div>
  </div>
/html>
```



```
<style>
      .background {
       background-color: □blue;
       height: 100vh;
       padding-top: 5px;
       padding-bottom: 5px;
       display: flex;
  flex-direction: column;
  justify-content: center;
     align-items: center;
     .cubes {
       text-align: center;
       padding-top: 20px;
       height: 50px;
       width: 200px;
       background-color: ■red;
       margin: 10px;
   </style>
 <body>
   <div class="background">
     <div class="cubes">1</div>
     <div class="cubes">2</div>
     <div class="cubes">3</div>
     <div class="cubes">4</div>
   </div>
</html>
```

