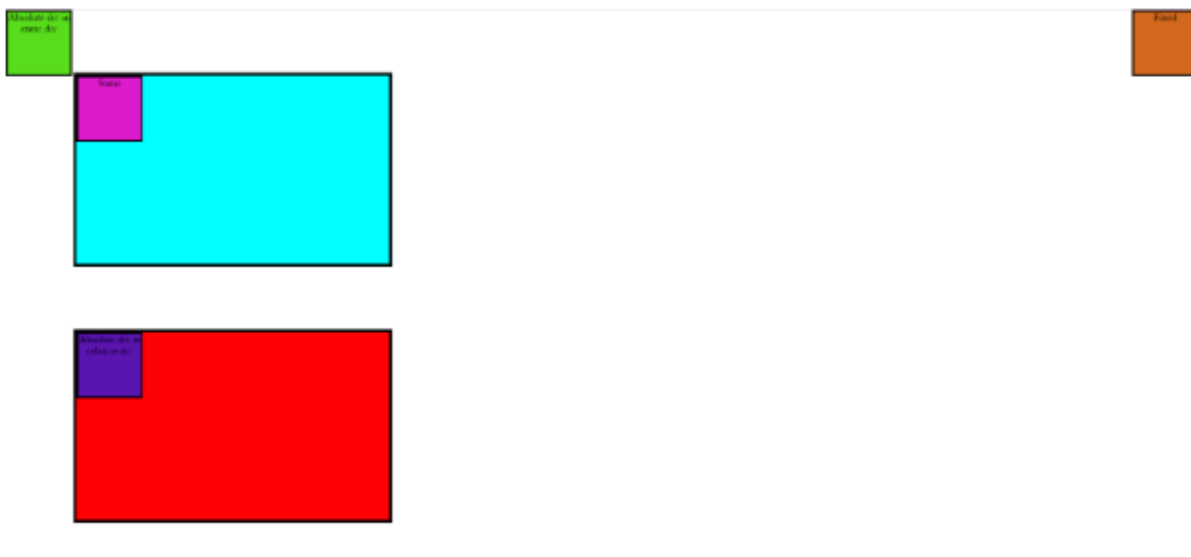


## Code Challenge 1

**Write proper code to generate the below given output :**

1. Create a parent div (position should be static, provide some top and left margin) with the following child divs :
  - a. Div with position : fixed; (Give top and right as 0px)
    - i. Add more content or zoom in the page so that the page can be scrolled then observe the position of this div on scrolling.
  - b. Div with position : absolute; (top and left should be 0px)
  - c. Div with position : static; (Give some top/left margin)
2. Create another parent div (position should be relative, provide some top and left margin) with the following child divs :
  - a. Div with position absolute (top and left should be 0px)

**Expected Output :**



**Solution to Code Challenge 2: -**

## Code Challenge 2

```
<!DOCTYPE html>
<html>
<head>
  <style>
    .parentDiv{
      background-color: aqua;
      width: 500px;
```

```

        height: 300px;
        border: solid 5px black;
        position: static;
        margin: 100px;
        text-align: center;
    }
    .parentDiv1{
        background-color: rgb(255, 0, 4);
        width: 500px;
        height: 300px;
        border: solid 5px black;
        position: relative;
        margin-left: 100px;
        text-align: center;
    }
    .child1{
        background-color: chocolate;
        width: 100px;
        height: 100px;
        border-style: solid;
        position:fixed;
        top:0;
        right:0;

    }
    .child2{
        background-color: rgb(89, 220, 28);
        width: 100px;
        height: 100px;
        border-style: solid;
        position: absolute;
        top: 0px;
        left: 0px;
    }
    .child3{
        background-color: rgb(220, 28, 204);
        width: 100px;
        height: 100px;
        border-style: solid;
        position: static;
    }

```

```

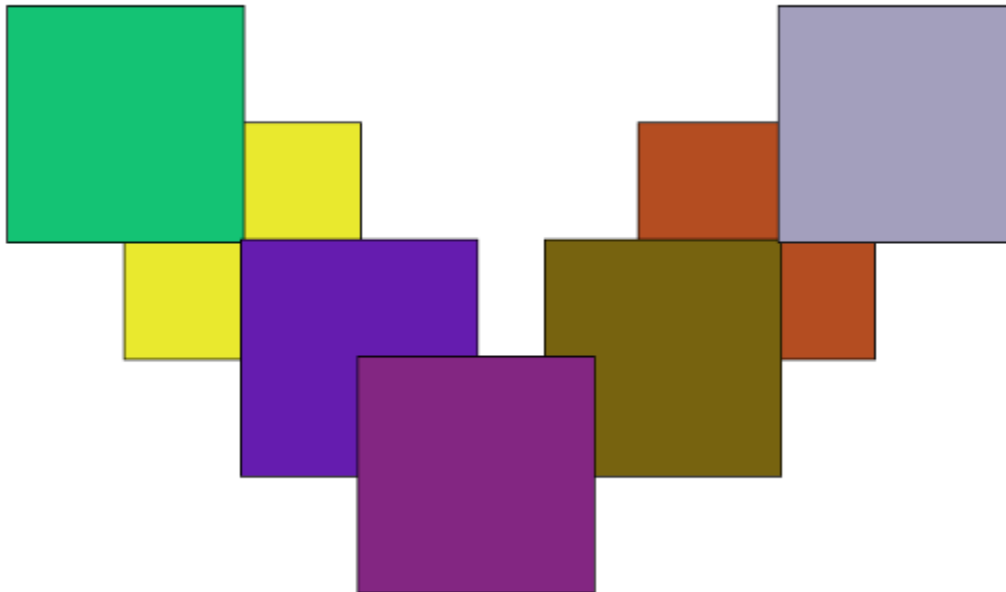
        top: 400px;
        left: 400px;
    }
    .child4{
        background-color: rgb(90, 21, 174);
        width: 100px;
        height: 100px;
        border-style: solid;
        position: absolute;
        top: 0px;
        left: 0px;
    }
</style>
</head>
<body>
<div class="parentDiv">
    <div class="child1">Fixed</div>
    <div class="child2">Absolute div in static div</div>
    <div class="child3">Static</div>
</div>
<div class="parentDiv1">
    <div class="child4">Absolute div in relative div</div>
</div>
</body>
</html>

```

## Code Challenge 2

**Write proper code to generate the below-given output :**

1. Create the below given layout, where the 3 divs overlap each other (using z-index)



## Solution to Code Challenge 2: -

```
<!DOCTYPE html>
<html>

<head>
  <title> CSS z-index</title>
  <style>
.child1 {
  border: 1px solid #000;
  width: 100px;
  height: 100px;
  background-color: rgb(20, 195, 116);
  color: #000;
  position: absolute;
  left: 50px;
  top: 50px;
  z-index: 4;
}
```

```

}
.child2 {
  border: 1px solid #000;
  width: 100px;
  height: 100px;
  background-color: rgb(233, 233, 46);
  color: #000;
  position: absolute;
  left: 100px;
  top: 100px;
  z-index: 2;
}
.child3 {
  border: 1px solid #000;
  width: 100px;
  height: 100px;
  background-color: rgb(101, 28, 175);
  color: #000;
  position: absolute;
  left: 150px;
  top: 150px;
  z-index: 4;
}
.child4 {
  border: 1px solid #000;
  width: 100px;
  height: 100px;
  background-color: rgb(131, 38, 130);
  color: #000;
  position: absolute;
  left: 200px;
  top: 200px;
  z-index: 5;
}
.child5 {
  border: 1px solid #000;
  width: 100px;
  height: 100px;
  background-color: rgb(119, 99, 15);

```

```

    color: #000;
    position: absolute;
    left: 280px;
    top: 150px;
    z-index: 4;
}
.child6 {
    border: 1px solid #000;
    width: 100px;
    height: 100px;
    background-color: rgb(180, 77, 33);
    color: #000;
    position: absolute;
    left: 320px;
    top: 100px;
    z-index: 2;
}
.child7 {
    border: 1px solid #000;
    width: 100px;
    height: 100px;
    background-color: rgb(163, 159, 189);
    color: #000;
    position: absolute;
    left: 380px;
    top: 50px;
    z-index: 4;
}

</style>
</head>
<body>

    <div class="child1"></div>
    <div class="child2"></div>
    <div class="child3"></div>
    <div class="child4"></div>
    <div class="child5"></div>
    <div class="child6"></div>
    <div class="child7"></div>

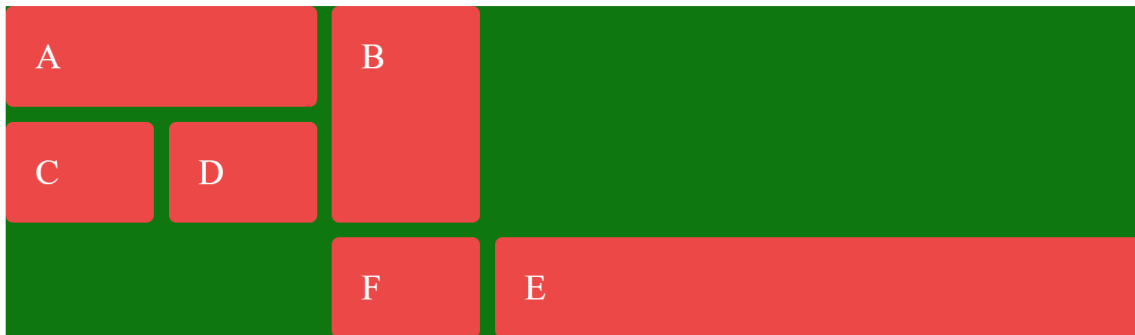
```

```
</body>  
</html>
```

### Code Challenge 3

**Write proper code to generate the below-given output :**

1. Create the below given layout using Grids.



### Solution to Code Challenge 3-

```
<!DOCTYPE html>
<html>
<head>
<style>
body {margin: 40px;}

.wrapper {
  display: grid;
  grid-gap: 10px;
  grid-template-columns: 100px 100px 100px;
  background-color: rgb(15, 119, 15);
  color: rgb(235, 255, 79);
}

.box {
  background-color: rgb(237, 72, 72);
  color: #fff;
  border-radius: 5px;
  padding: 20px;
  font-size: 150%;
}

.a {
  grid-column: 1 / 3;
```



```

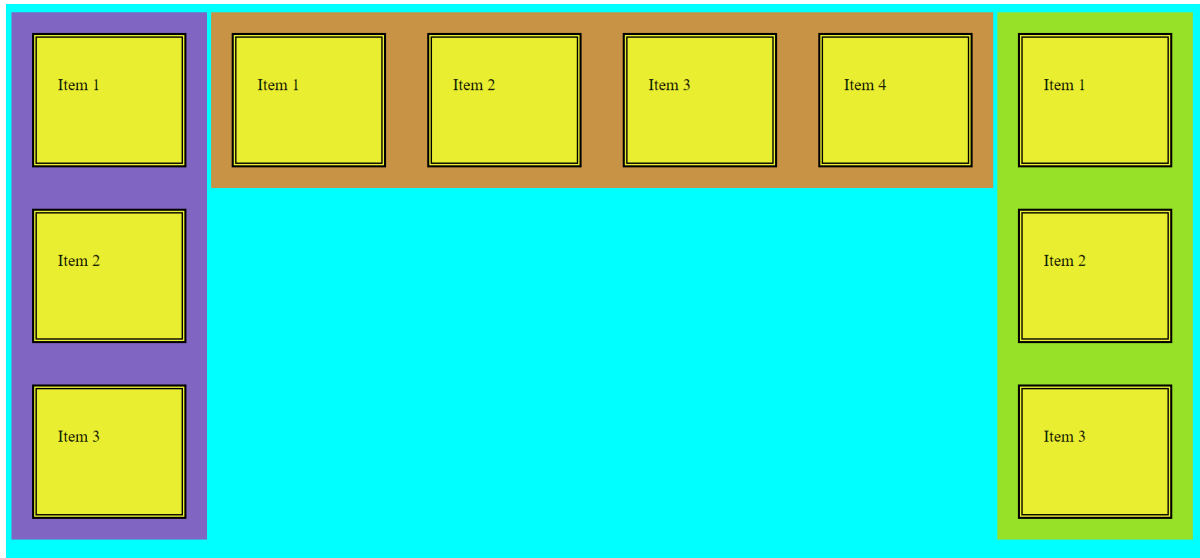
    grid-row: 1;
  }
  .b {
    grid-column: 3 ;
    grid-row: 1 / 3;
  }
  .c {
    grid-column: 1 ;
    grid-row: 2 ;
  }
  .d {
    grid-column: 2;
    grid-row: 2;
  }
  .e {
    grid-column: 4;
    grid-row: 3;
  }
  .f {
    grid-column: 3;
    grid-row: 3;
  }
</style>
</head>
<body>
  <div class="wrapper">
    <div class="box a">A</div>
    <div class="box b">B</div>
    <div class="box c">C</div>
    <div class="box d">D</div>
    <div class="box e">E</div>
    <div class="box f">F</div>
  </div>
</body>
</html>

```

## Code Challenge 4

**Write proper code to generate the below-given output :**

1. Create the below-given layout using Flex properties.



**Solution to Code Challenge 4: -**

```
<html>
  <head>
    <title> Flex </title>
    <style>
      body
      {
        background-color: aqua;
      }
      .container {
        display: inline-flex;
        background-color: rgb(129, 101, 194);
        flex-direction: row;
        flex-wrap: wrap;
        justify-content: flex-start;
        flex-direction: column;
      }
      .container2 {
        display: inline-flex;
        background-color: rgb(200, 147, 68);
      }
    </style>
  </head>
  <body>
    <div class="container">
      <div class="container2">
        <div>Item 1</div>
        <div>Item 2</div>
        <div>Item 3</div>
      </div>
      <div>Item 1</div>
      <div>Item 2</div>
      <div>Item 3</div>
      <div>Item 4</div>
    </div>
  </body>
</html>
```

```

        flex-direction: row;
        flex-wrap: wrap;
        justify-content: center;
    }
    .container3 {
        display: inline-flex;
        background-color: rgb(151, 226, 40);
        flex-direction: row;
        flex-wrap: wrap;
        justify-content: flex-end;
    }
    .item{
        background-color: rgb(233, 239, 48);
        border-width: 5px;
        border-style: double;
        width: 100px;
        height: 80px;
        padding: 20px;
        margin: 20px;
    }
</style>
</head>
<body>
    <div class="container">
        <div class="item">
            <p>Item 1</p>
        </div>
        <div class="item">
            <p>Item 2</p>
        </div>
        <div class="item">
            <p>Item 3</p>
        </div>
    </div>
    <div class="container2">
        <div class="item">
            <p>Item 1</p>
        </div>
        <div class="item">

```

```

        <p>Item 2</p>
    </div>
    <div class="item">
        <p>Item 3</p>
    </div>
    <div class="item">
        <p>Item 4</p>
    </div>
</div>
<div class="container3">
    <div class="item">
        <p>Item 1</p>
    </div>
    <div class="item">
        <p>Item 2</p>
    </div>
    <div class="item">
        <p>Item 3</p>
    </div>
</div>
</div>
</body>
</html>

```