

NAME:SAURABH RAJ

REGISTERED EMAIL :[saurabhraj25aug2004@gmail.com](mailto:saurabhraj25aug2004@gmail.com)

COURSE NAME:FULL STACK DEVELOPMENT

BATCH:APRIL 24

MODULE NAME:POSITIONS IN CSS

MOBILE NUMBER:8434283953

## -----POSITIONS IN CSS-----

Question:1

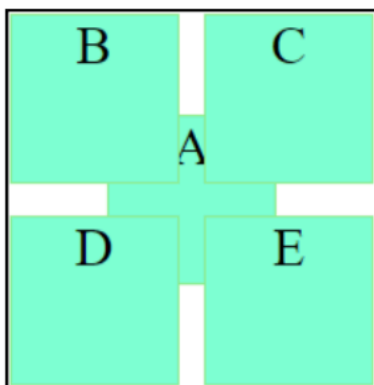
### Task 1:

#### Problem Statement

Write code to position 5 equal-sized (50 X 50px) boxes A, B, C, D, and E as follows,

1. box A 200px from the left, and 200px from the top of the viewport.
2. box B -30px left, and -30px above from the center of box A.
3. box C 30px right, and -30px above from the center of box A.
4. box D -30px left, and 30px below from the center of box A.
5. box E 30px right, and 30px below from the center of box A.

#### Expected Output



Answer:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Positioned Boxes</title>
```

```
<link rel="stylesheet" href="p1.css">
</head>
<body>
  <div class="box" id="boxA">A</div>
  <div class="box" id="boxB">B</div>
  <div class="box" id="boxC">C</div>
  <div class="box" id="boxD">D</div>
  <div class="box" id="boxE">E</div>
</body>
</html>
```

## Css code:

```
/* Basic Reset */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
body {
  font-family: 'Arial', sans-serif;
  background-color: #ffffff;
  position: relative;
  height: 100vh;
}
/* Box Styling */
.box {
  width: 50px;
  height: 50px;
  background-color: #b3ffec;
  color: #000;
  display: flex;
  justify-content: center;
  align-items: center;
  position: absolute;
  border: 1px solid #000;
}
/* Specific Box Positions */
#boxA {
  top: 200px;
  left: 200px;
}
```

```

#boxB {
  top: 170px; /* 200px - 30px */
  left: 170px; /* 200px - 30px */
}
#boxC {
  top: 170px; /* 200px - 30px */
  left: 230px; /* 200px + 30px */
}
#boxD {
  top: 230px; /* 200px + 30px */
  left: 170px; /* 200px - 30px */
}
#boxE {
  top: 230px; /* 200px + 30px */
  left: 230px; /* 200px + 30px */
}

```

Output:



Question:2

## Task 2:

### Problem Statement

Explain the difference between Absolute and Relative positioning.

Answer:

### Absolute Positioning

- **Definition:** An element with `position: absolute;` is positioned relative to its closest positioned ancestor (an

ancestor with a position other than `static`). If there is no such ancestor, it is positioned relative to the initial containing block (usually the viewport).

- **Behavior:** The element is removed from the normal document flow, meaning it does not affect the positioning of other elements, nor is it affected by them. It can be precisely placed anywhere within its containing element using the `top`, `right`, `bottom`, and `left` properties.
- **Use Case:** Ideal for creating layouts where elements need to be positioned in a specific location regardless of the surrounding elements, such as tooltips, modals, or specific design components.

## Relative Positioning

- **Definition:** An element with `position: relative;` is positioned relative to its normal position in the document flow.
- **Behavior:** The element remains in the normal document flow, so it still occupies space. The `top`, `right`, `bottom`, and `left` properties will offset the element from its normal position without affecting the layout of other elements around it.
- **Use Case:** Useful for making small adjustments to the position of an element without disrupting the layout of other elements. This can be used to nudge elements slightly for better alignment or visual effect.

## Key Differences

### 1. Document Flow:

- **Absolute:** Removes the element from the document flow.
- **Relative:** Keeps the element in the document flow.

## 2. Positioning Context:

- **Absolute:** Positioned relative to the nearest positioned ancestor or the initial containing block.
- **Relative:** Positioned relative to its original position.

## 3. Effect on Other Elements:

- **Absolute:** Does not affect the layout of other elements.
- **Relative:** Can affect the layout of other elements due to its space in the document flow.

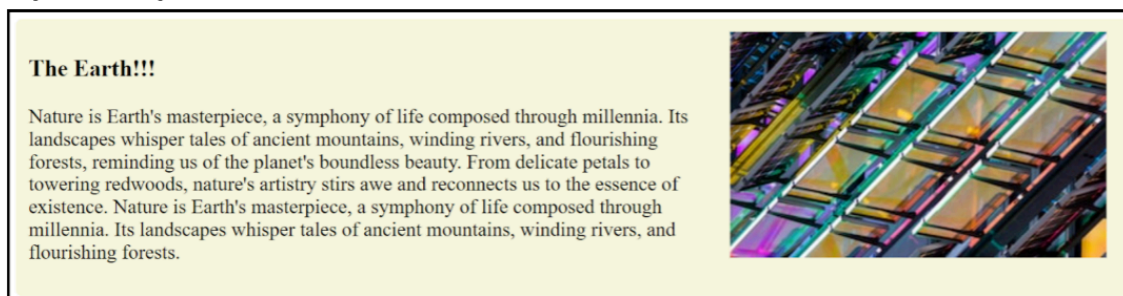
### Question:3

#### Task 3:

##### Problem Statement

Create a card as shown in the picture below. (You can use CSS float property only for layout).

##### Expected Output



### Answer:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Card Layout</title>
  <link rel="stylesheet" href="p3.css">
</head>
<body>
  <div class="card">
    <h1 class="card-title">The Earth!!!</h1>
    
```

```
<p class="card-text">
    Nature is Earth's masterpiece, a symphony of life composed
    through millennia. Its landscapes whisper tales of ancient mountains,
    winding rivers, and flourishing forests, reminding us of the planet's
    boundless beauty. From delicate petals to towering redwoods, nature's
    artistry stirs awe and reconnects us to the essence of existence.
    Nature is Earth's masterpiece, a symphony of life composed through
    millennia. Its landscapes whisper tales of ancient mountains, winding
    rivers, and flourishing forests.
</p>
</div>
</body>
</html>
```

## Css code:

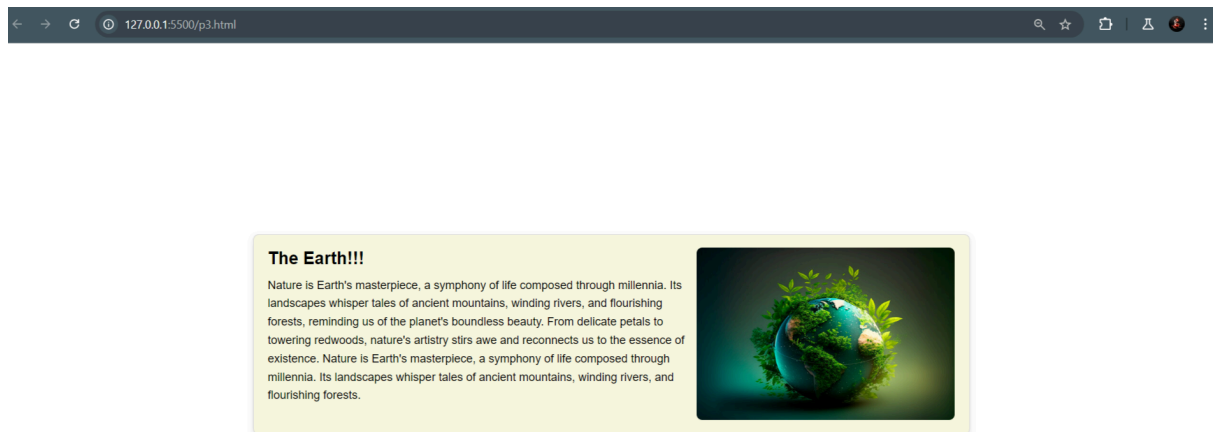
```
/* Basic Reset */
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}
body {
    font-family: 'Arial', sans-serif;
    background-color: #fff;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
}
.card {
    background-color: #f5f5dc;
    border: 1px solid #dcdcdc;
    padding: 20px;
    max-width: 1000px;
    width: 100%;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    overflow: hidden;
}
.card-title {
    font-size: 24px;
```

```

    font-weight: bold;
    margin-bottom: 10px;
}
.card-image {
    float: right;
    margin: -40px 0 0;
    max-width: 400px;
    height: 240px;
    border-radius: 8px;
}
.card-text {
    font-size: 16px;
    line-height: 1.6;
}

```

## OUTPUT:



## Question 4:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Sticky Header Example</title>
    <link rel="stylesheet" href="p4.css">
</head>
<body>
    <header class="header">
        <div class="logo">LOGO</div>
        <nav class="nav">

```

```
<a href="#">Home</a>
<a href="#">Pricing</a>
<a href="#">Contact</a>
<a href="#">Terms and Conditions</a>
<button class="get-started">Get Started</button>
</nav>
</header>

<div class="content">
  <h1>Heading 1</h1>
  <p>Lorem ipsum dolor sit amet consectetur adipisicing elit.
Ipsum possimus modi magni deleniti rerum provident minima nisi cum
delectus, inventore, facere corrupti reprehenderit magnam ipsa. Earum
tempore adipisci repellendus minima!</p>
  <h1>Heading 2</h1>
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Etiam augue diam, euismod non sodales ut, pulvinar a tortor. In varius,
nisi quis varius elementum, augue risus vehicula ex, quis dignissim
nisi ligula quis velit. Integer volutpat, nibh in venenatis viverra,
arcu metus semper enim, ut aliquet nunc tortor et erat. Etiam pretium
arcu a leo consectetur, vel egestas ex ornare. In sed porttitor velit.
Aliquam erat volutpat. Etiam sit amet magna eget neque ullamcorper
finibus in id ex.

Phasellus sit amet ipsum in nisi condimentum pretium. Quisque sed risus
vulputate, dignissim massa ac, mollis enim. Ut ullamcorper sapien
mauris, ac semper est lobortis in. Proin pellentesque tempor neque, at
sagittis magna ultrices sit amet. Curabitur efficitur condimentum
augue, a sagittis ligula finibus ut. Sed fermentum feugiat venenatis.
Class aptent taciti sociosqu ad litora torquent per conubia nostra, per
inceptos himenaeos. Mauris ac tellus non est pharetra tincidunt. Sed
pellentesque tempus porta. Duis diam lacus, interdum non interdum nec,
tincidunt a dui. Nulla pharetra nibh in metus condimentum cursus.</p>
  <h1>Heading 3</h1>
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Etiam augue diam, euismod non sodales ut, pulvinar a tortor. In varius,
nisi quis varius elementum, augue risus vehicula ex, quis dignissim
nisi ligula quis velit. Integer volutpat, nibh in venenatis viverra,
arcu metus semper enim, ut aliquet nunc tortor et erat. Etiam pretium
arcu a leo consectetur, vel egestas ex ornare. In sed porttitor velit.
Aliquam erat volutpat. Etiam sit amet magna eget neque ullamcorper
finibus in id ex.
```



Donec dignissim diam eget tellus feugiat tincidunt a at felis. Ut bibendum dui sit amet elementum elementum. Mauris pretium mauris sed neque euismod, sit amet vestibulum erat consequat. Fusce ornare tellus et pretium mattis. Quisque a est arcu. Phasellus varius turpis dolor, ac maximus neque pharetra sit amet. Aliquam in ligula porta, facilisis lacus quis, aliquam ligula. Aliquam erat volutpat. Cras volutpat lorem ex, ac vulputate felis rutrum et. Etiam leo ex, porta vel luctus in, convallis eget nulla. Maecenas quis arcu pretium, sollicitudin lectus nec, suscipit nisl. In ullamcorper, odio sed rutrum viverra, dolor nibh feugiat risus, vel accumsan nisi lectus sed massa. Donec scelerisque euismod iaculis. Donec pretium malesuada libero vel aliquam. Sed laoreet lacus in sem sodales varius. Vestibulum maximus volutpat lectus at feugiat.

Phasellus sit amet ipsum in nisi condimentum pretium. Quisque sed risus vulputate, dignissim massa ac, mollis enim. Ut ullamcorper sapien mauris, ac semper est lobortis in. Proin pellentesque tempor neque, at sagittis magna ultrices sit amet. Curabitur efficitur condimentum augue, a sagittis ligula finibus ut. Sed fermentum feugiat venenatis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Mauris ac tellus non est pharetra tincidunt. Sed pellentesque tempus porta. Duis diam lacus, interdum non interdum nec, tincidunt a dui. Nulla pharetra nibh in metus condimentum cursus.</p>

</div>

</body>

</html>

## Css code:

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
}
.header {
  position: sticky;
  top: 0;
  left: 0;
  right: 0;
  background-color: #333;
  color: white;
  display: flex;
```

```
    justify-content: space-between;
    align-items: center;
    padding: 10px 20px;
    box-shadow: 0 2px 5px rgba(0,0,0,0.1);
    z-index: 1000;
}
.header .logo {
    font-size: 24px;
}
.header .nav a {
    color: white;
    text-decoration: none;
    margin: 0 15px;
    padding: 5px 0;
}
.header .nav .get-started {
    border: 1px solid #ffcc00;
    border-radius: 8px;
    color: #ffcc00;
    padding: 10px 20px;
    cursor: pointer;
    background-color: transparent;
}
.content {
    padding: 0 20px;
}
.content h1 {
    margin-top: 40px;
}
.content p {
    margin: 20px 0;
    line-height: 1.6;
}
```

Output:

## Heading 1

Lorem ipsum dolor sit amet consectetur adipiscing elit. Ipsum possimus modi magni deleniti rerum provident minima nisi cum delectus, inventore, facere corrupti reprehenderit magnam ipsa. Earum tempore adipisci repellendus minima!

## Heading 2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam augue diam, euismod non sodales ut, pulvinar a tortor. In varius, nisi quis varius elementum, augue risus vehicula ex, quis dignissim nisi ligula quis velit. Integer volutpat, nibh in venenatis viverra, arcu metus semper enim, ut aliquet nunc tortor et erat. Etiam pretium arcu a leo consectetur, vel egestas ex ornare. In sed porttitor velit. Aliquam erat volutpat. Etiam sit amet magna eget neque ullamcorper finibus in id ex. Phasellus sit amet ipsum in nisi condimentum pretium. Quisque sed risus vulputate, dignissim massa ac, mollis enim. Ut ullamcorper sapien mauris, ac semper est lobortis in. Proin pellentesque tempor neque, at sagittis magna ultrices sit amet. Curabitur efficitur condimentum augue, a sagittis ligula finibus ut. Sed fermentum feugiat venenatis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Mauris ac tellus non est pharetra tincidunt. Sed pellentesque tempus porta. Duis diam lacus, interdum non interdum nec, tincidunt a dul. Nulla pharetra nibh in metus condimentum cursus.

## Heading 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam augue diam, euismod non sodales ut, pulvinar a tortor. In varius, nisi quis varius elementum, augue risus vehicula ex, quis dignissim nisi ligula quis velit. Integer volutpat, nibh in venenatis viverra, arcu metus semper enim, ut aliquet nunc tortor et erat. Etiam pretium arcu a leo consectetur, vel egestas ex ornare. In sed porttitor velit. Aliquam erat volutpat. Etiam sit amet magna eget neque ullamcorper finibus in id ex. Donec dignissim diam eget tellus feugiat tincidunt a at felis. Ut bibendum dui sit amet elementum elementum. Mauris pretium mauris sed neque euismod, sit amet vestibulum erat consequat. Fusce ornare tellus et pretium mattis. Quisque a est arcu. Phasellus varius turpis dolor, ac maximus neque pharetra sit amet. Aliquam in ligula porta, facilisis lacus quis, aliquam ligula. Aliquam erat volutpat. Cras volutpat lorem ex, ac vulputate felis rutrum et. Etiam leo ex, porta vel luctus in, convallis eget nulla. Maecenas quis arcu pretium, sollicitudin lectus nec, suscipit nisi. In ullamcorper, odio sed rutrum viverra, dolor nibh feugiat risus, vel accumsan nisi lectus sed massa. Donec scelerisque euismod laculis. Donec pretium malesuada libero vel aliquam. Sed laoreet lacus in sem sodales varius. Vestibulum maximus volutpat lectus at feugiat. Phasellus sit amet ipsum in nisi condimentum pretium. Quisque sed risus vulputate, dignissim massa ac, mollis enim. Ut ullamcorper sapien mauris, ac semper est lobortis in. Proin pellentesque tempor neque, at sagittis magna ultrices sit amet. Curabitur efficitur condimentum augue, a sagittis ligula finibus ut. Sed fermentum feugiat venenatis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Mauris ac tellus non est pharetra tincidunt. Sed pellentesque tempus porta. Duis diam lacus, interdum non interdum nec, tincidunt a dul. Nulla pharetra nibh in metus condimentum cursus.

# Question 5:

## Task 5:

### Problem Statement

Explain the z-index, with a code example.

## Answer:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Z-Index Example</title>
  <link rel="stylesheet" href="p5.css">
</head>
<body>
  <div class="box box1">Box 1</div>
  <div class="box box2">Box 2</div>
  <div class="box box3">Box 3</div>
</body>
</html>
```

## Css code:

```
body {
```

```
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
background-color: #f0f0f0;
}

.box {
  position: absolute;
  width: 200px;
  height: 200px;
  display: flex;
  justify-content: center;
  align-items: center;
  color: white;
  font-size: 24px;
}

.box1 {
  background-color: red;
  top: 50px;
  left: 50px;
  z-index: 1;
}

.box2 {
  background-color: blue;
  top: 100px;
  left: 100px;
  z-index: 2;
}

.box3 {
  background-color: green;
  top: 150px;
  left: 150px;
  z-index: 3;
}
```

Output:

