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Assignment on Web application programming

1.CSS Positioning

Objective: Create a web page demonstrating different CSS positioning techniques.

Instructions:

1. Create an HTML file named index.html.
2. Add a div element with the class container and three child div elements with
classes absolute, relative, and fixed.
3. Style the container to have a width of 500px and height of 300px.
4. Apply different positioning styles to each child div.

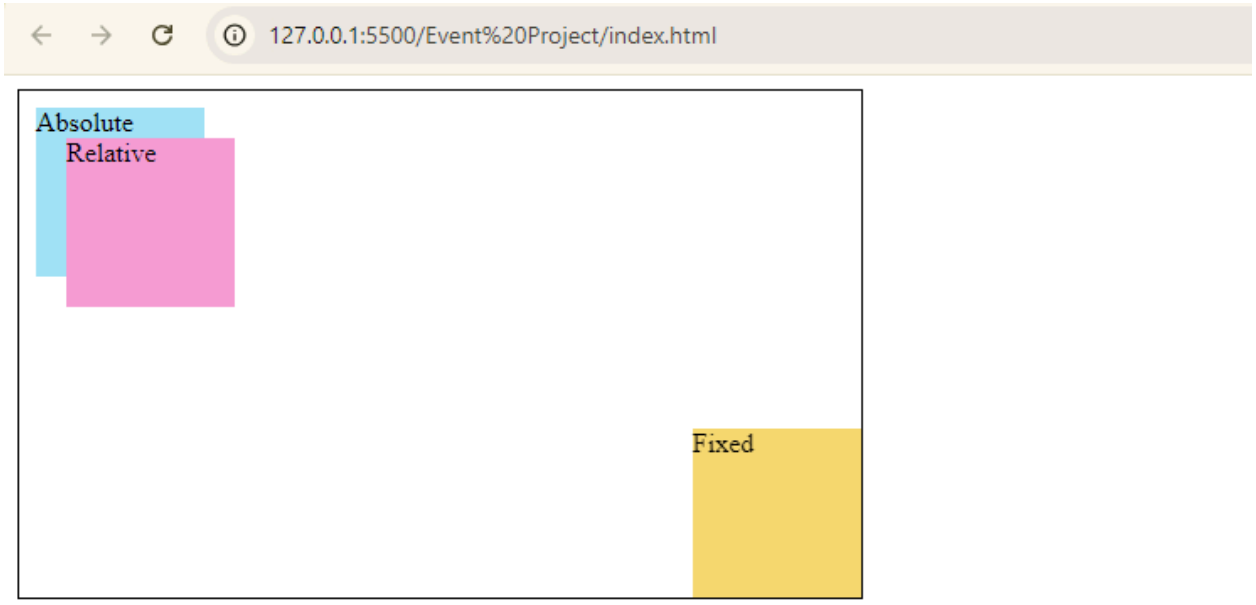
Code :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Positioning Example</title>
    <style>
        .container {
            width: 500px;
            height: 300px;
            border: 1px solid #000;
            position: relative;
        }
        .absolute {
```

```
            position: absolute;
            top: 10px;
            left: 10px;
            width: 100px;
            height: 100px;
            background-color: rgb(161, 225, 247);
        }
        .relative {
            position: relative;
            top: 28px;
            left: 28px;
            width: 100px;
            height: 100px;
            background-color: rgb(247, 159, 213);
        }
        .fixed {
            position: fixed;
            bottom: 332px;
            right: 62.75%;
            width: 100px;
            height: 100px;
            background-color: rgb(247, 216, 114);
        }
    </style>
</head>
<body>
    <div class="container">
        <div class="absolute">Absolute</div>
        <div class="relative">Relative</div>
        <div class="fixed">Fixed</div>
    </div>
```

</body>
</html>

Output :



2.Try changing the width and give only 10px to border property. Mention what changes you
have noticed with the content. Hint: Create a html with div containers and classes accordingly.

Code:

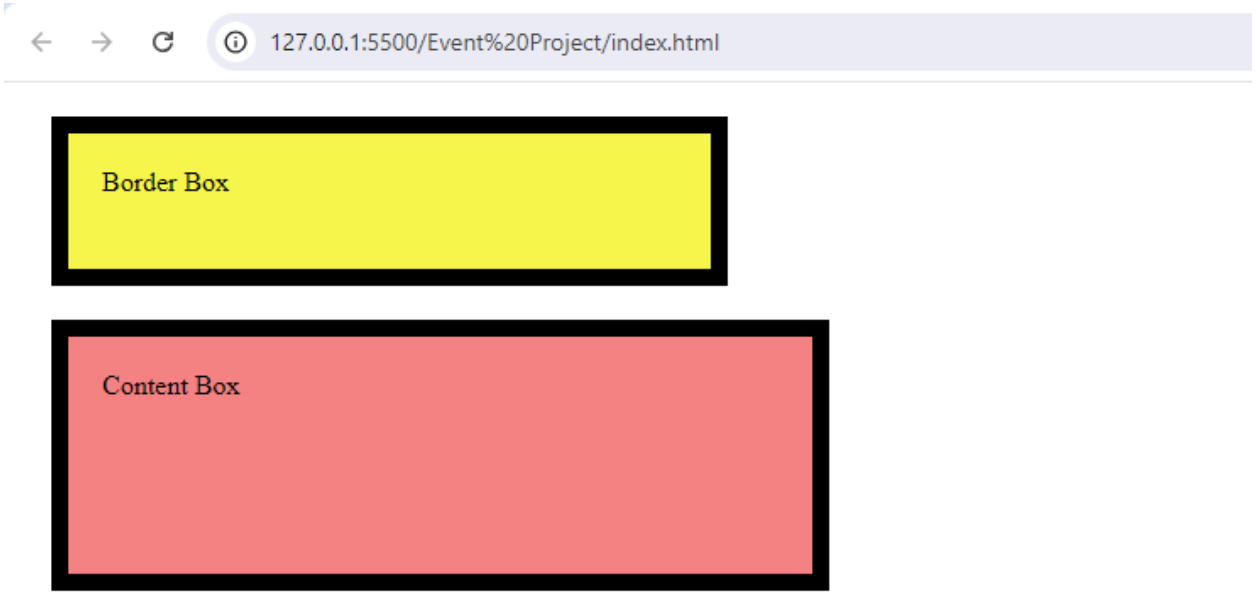
```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Box Sizing</title>
    <style>
        .border-box, .content-box {
            width: 400px;
            height: 100px;
            margin: 20px;
            padding: 20px;
            border: 10px solid black;
        }

        .border-box {
            box-sizing: border-box;
            background-color: rgb(245, 245, 76);
        }

        .content-box {
            box-sizing: content-box;
            background-color: rgb(247, 134, 134);
        }
    </style>
</head>
<body>
    <div class="border-box">Border Box</div>
    <div class="content-box">Content Box</div>
</body>
</html>
```

Output :



3.Javascript – show difference between substr and substring with negative index and positive index for the string "The world is wonderful".

Positive Index :

```
const str = "The world is wonderful";

undefined
const substrPositive = str.substr(4, 5);
undefined
substrPositive
'world'

const substringPositive = str.substring(4, 9);
undefined
substringPositive
'world'
```

Negative Index :

```
const substrNegative = str.substr(-9, 5);
undefined
substrNegative
'wonde'
```

```
const substringNegative = str.substring(-9, 9);
undefined
substringNegative
'The world'
```

4.Show what's inline, internal and external scripts.

Inline :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Inline Script Example</title>
</head>
<body>
    <h1>Inline Script Example</h1>
    <button onclick="alert('Hello from Inline Script!')">Click Me</button>
</body>
</html>
```

Internal :

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Internal Script Example</title>
   <script>
      function showAlert() {
         alert('Hello from Internal Script!');
      }
   </script>
</head>
<body>
   <h1>Internal Script Example</h1>
   <button onclick="showAlert()">Click Me</button>
</body>
</html>
```

External :

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>External Script Example</title>
   <script src="script.js"></script>
</head>
<body>
```

```
    <h1>External Script Example</h1>
    <button onclick="showExternalAlert()">Click Me</button>
</body>
</html>
```

script.js :

```
function showExternalAlert() {
    alert('Hello from External Script!');
}
```

5 . As per naming convention, which variable is advisable to use for functions or arrays: const or let or var?

Const :

```
const arr = [1,2,3,56,78];
```

```
undefined
```

```
arr
```

```
▶ (5) [1, 2, 3, 56, 78]
```

Let :

```
let count = 0;
```

```
undefined
```

```
console.log('Count :', count);
```

```
Count : 0
```

Var :

```
function myFunction() {
            var mes = "Hello";
            console.log(mes);
        }
```

```
undefined
```

```
 myFunction();
```

```
Hello
```