1-What are the differences between the opacity property and alpha channel in rgba or hsla?

The opacity property in CSS controls the transparency of an element and affects the entire element and its contents. The alpha channel in RGBA and HSLA color notations specifically controls the transparency of the color, leaving other visual properties unaffected and requiring separate settings for child elements.

2-What is the most effective method for setting CSS color properties?

The most effective method for setting CSS color properties depends on personal preference and the specific use case. Common methods include using keyword values, hexadecimal notation, RGB/RGBA notation, HSL/HSLA notation, and named colors. Choose a method that balances simplicity, flexibility, and compatibility with your project.

3-Create 3 divisions in a web page.

• Make the first div has 3 paragraphs and each paragraph has a background with red color (Create a transition from darker red to a lighter).

• Make the second div has an image background horizontally repeated.

• **Add in the third div an image on the (right top) and make it fixed.**

• **Add Box model on a text in the third div, that has Total element width equal 400px**

```html
<!DOCTYPE html>
<html>
<head>
  <style>
    .first-div {
      padding: 20px;
    }


    .first-div p {
      margin: 10px 0;
      padding: 10px;
      color: white;
    }


    .red-background-1 {
      background: linear-gradient(to bottom,
#FF0000, #FF3333);
    }


    .red-background-2 {
```

```css
    background: linear-gradient(to bottom,
#FF3333, #FF6666);
    }


    .red-background-3 {
    background: linear-gradient(to bottom,
#FF6666, #FF9999);
    }



.second-div {
  background-image: url("leaf.jfif");
  background-repeat: repeat-x;
  padding: 20px;
}


.third-div {
  position: relative;
  padding: 20px;
}


.third-div p {
  width: 400px;
  padding: 10px;
  border: 1px solid black;
}
```

```html
    .third-div img {
      position: fixed;
      top: 0;
      right: 0;
      width: 100px;
      height: auto;
    }
  </style>
</head>


<body>
    <div class="first-div">
        <p class="red-background-1">Paragraph 1</p>
        <p class="red-background-2">Paragraph 2</p>
        <p class="red-background-3">Paragraph 3</p>
    </div>


  <div class="second-div">
    <h2>Welcome to My Website</h2>
    <p>This is a paragraph of text.</p>
    <img src="leaf.jfif" alt="background-repeat" style="width: 20px; height: auto;" >
  </div>


  <div class="third-div">
    <img  src="pink.jfif " >
```

```
        <p>Box model text</p>
    </div>
</body>
</html>
```

Paragraph 1

Paragraph 2

Paragraph 3

Welcome to My Website

This is a paragraph of text.

Box model text