

1.What is difference between margin and padding?

Aspect	Margin	Padding
Definition	Space outside the border of an element.	Space inside the border of an element.
Positioning	Moves the element away from other elements.	Moves the content away from the element's border.
Impact on Layout	Affects the distance between elements.	Affects the spacing within an element.
Inheritance	Not inherited.	Not inherited.
Background Color	Does not affect background color.	Affects background color (if background is set).
Collapse	Margins can collapse with adjacent margins.	Padding does not collapse.
Example	`margin: 10px;` (space outside the border)	`padding: 10px;` (space inside the border)

## Code:-

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Margin vs Padding</title>

  <style>

    .box {

      border: 2px solid black;

      margin: 20px; /* Space outside the border */

      padding: 20px; /* Space inside the border */

      background-color: lightblue;

    }

  </style>

</head>

<body>

  <div class="box">This is a box with margin and padding.</div>
```

</body>

</html>

## **Screenshot of output:-**



2. How does box-sizing property affect the layout.

Value	Description	Calculation
content-box (default)	Width and height apply only to the content area. Padding and border are added to the element's dimensions.	width = Content Width + Padding + Border height = Content Height + Padding + Border
border-box	Width and height include content, padding, and border. Padding and border are included within the set dimensions.	width = Content Width (including padding and border) height = Content Height (including padding and border)

## **Code:-**

### **Default content-box**

<!DOCTYPE html>

<html lang="en">

<head>

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Box-Sizing Example</title>
<style>
    .content-box {
        box-sizing: content-box;
        width: 200px;
        padding: 20px;
        border: 5px solid black;
        background-color: lightgreen;
    }
</style>
</head>
<body>
    <div class="content-box">Content-box model</div>
</body>
</html>
```

## **Screenshot of Output:-**



## With border-box:-

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Box-Sizing Example</title>

  <style>

    .border-box {

      box-sizing: border-box;

      width: 200px;

      padding: 20px;

      border: 5px solid black;

      background-color: lightcoral;

    }

  </style>

</head>

<body>

  <div class="border-box">Border-box model</div>

</body>

</html>
```

## Screenshot of Output:-

