

1. Create and image gallery using a CSS grid.

```
Answer:- <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<style>
.photo-gallery{
display: grid;
grid-template-columns: repeat(3, 1fr);
grid-template-rows: repeat(3, 250px);
gap: 20px;
padding: 20px;
}
.photo-1{
grid-column-start: 1;
grid-column-end: 3;
grid-row-start: 1;
grid-row-end: 2;
}
.photo-2{
grid-column-start: 2;
grid-column-end: 3;
grid-row-start: 2;
grid-row-end: 3;
}
.photo-3{
grid-column-start: 3;
grid-column-end: 4;
grid-row-start: 1;
grid-row-end: 2;
}
.photo-4{
grid-column-start: 1;
grid-column-end: 2;
grid-row-start: 2;
grid-row-end: 4;
}
.photo-5{
grid-column-start: 2;
grid-column-end: 3;
grid-row-start: 3;
grid-row-end: 4;
}
.photo-6{
grid-column-start: 3;
grid-column-end: 4;
grid-row-start: 2;
grid-row-end: 4;
}
img{
height: 100%;
```

```

width: 100%;
border-radius: 10px;
}
</style>
</head>
<body>
<div Class="Photo-gallery">
<div class="Photo-1">

</div>
<div class="Photo-2">

</div>
<div class="Photo-3">

</div>
<div class="Photo-4">

</div>
<div class="Photo-5">

</div>
<div class="Photo-6">

</div>
</div>
</body>
</html>

```

2. Write code to arrange container with text A,B,C&D as shown.

```

Answer:- <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<style>
.container{
display: grid;
grid-gap: 10px;
grid-template-columns: 100px 100px 100px;
}
.box{
background-color: mistyrose;
color: #fff;
border-radius: 5px;
padding: 20px;
font-size: 150%;
color: hotpink;
}
.boxa{
grid-column: 1/3;
grid-row: 1;
}

```

```

.boxb{
grid-column: 3;
grid-row: 1/3;
}
.boxc{
grid-column: 1;
grid-row: 2;
}
.boxd{
grid-column: 2;
grid-row: 2;
}
</style>
</head>
<body>
<div class="container">
<div class="box boxa">A</div>
<div class="box boxb">B</div>
<div class="box boxc">C</div>
<div class="box boxd">D</div>
</div>
</body>
</html>

```

3. Explain the use of grid-auto-row and grid-auto-column using code examples.

Answer: grid-auto-row and grid-auto-column properties specify the height and width of rows that are automatically created when there is no explicit row definition and column definition respectively.

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<style>
.container{
display: grid;
grid-template-areas: "x x";
grid-template-rows: 50px;
grid-auto-rows: 200px;
}
.container >div{
border: 1px solid black;
background-color: mistyrose;
padding: 5px;
}
</style>
</head>
<body>
<div class="container">
<div >A</div>
<div >B</div>
<div >C</div>

```

```

<div>D</div>
</div>
</body>
</html>

```

This example creates a grid container with three columns defines by grid template areas. The first row is displayed with a height of 50px because we have mentioned grid template rows for the first row as 50px and the remaining rows will be displayed with a height of 100px becuae of the frid auto row 200px property. Thats why the second row displayed with a height of 200px.

4. Write CSS to show numbers as shown in the figure without altering the HTML file.

```

Answer; <style>
body{margin: 40px;}
.box{
background-color: darkgray;
color: #fff;
border-radius: 5px;
padding: 20px;
font-size: 150%;
order: 1;
}
.box:nth-child(even){background-color: #ccc;
color: #000;}
.container{
width:600px;
display: grid;
grid-template-columns: repeat(6,100px);
grid-gap: 10px;
}
.box1{order:3;}
.box2{order:6;}
.box3{order:2;}
</style>

```

5. Explain the difference between justify-items and justify-self using code examples.

Answer: the main difference between them is that justify-items apply to grid containers and justify-self applies to grid-items.

Let us understand them by taking an example, below code, for example having 6 grid items arranged in a 3*2 grid.

```

Before justifyify <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<style>
.container{
display: grid;

```

```

grid-template-columns: auto auto auto;
border: 1px solid black;
}
.container >div{padding: 5px;
background-color: mistyrose;
border: 1px solid black;}
</style>
</head>
<body>
<div class="container">
<div class="box1">box 1</div>
<div class="box2">box 2</div>
<div class="box3">box 3</div>
<div class="box4">box 4</div>
<div class="box5">box 5</div>
<div class="box6">box 6</div>
</div>
</body>
</html>

```

After justify <!DOCTYPE html>

```

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<style>
.container{
display: grid;
grid-template-columns: auto auto auto;
border: 1px solid black;
}
.container >div{padding: 5px;
background-color: mistyrose;
border: 1px solid black;}
.container{justify-items: center;}
</style>
</head>
<body>
<div class="container">
<div class="box1">box 1</div>
<div class="box2">box 2</div>
<div class="box3">box 3</div>
<div class="box4">box 4</div>
<div class="box5">box 5</div>
<div class="box6">box 6</div>
</div>
</body>
</html>

```