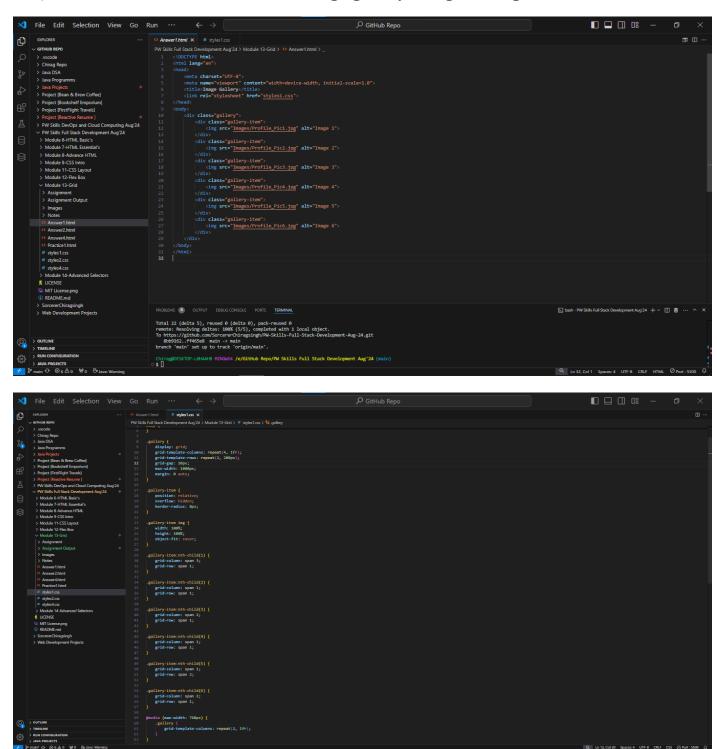
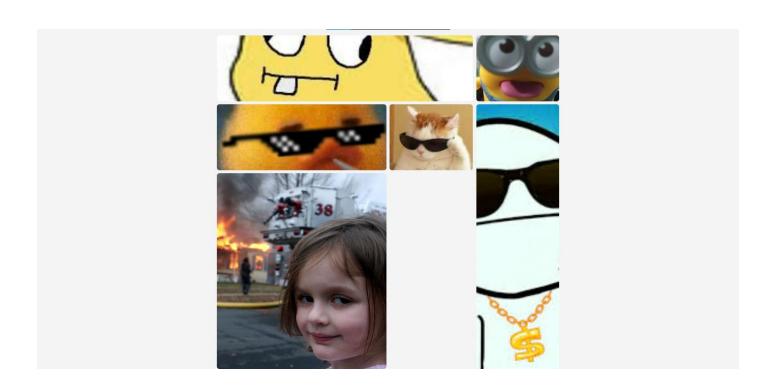
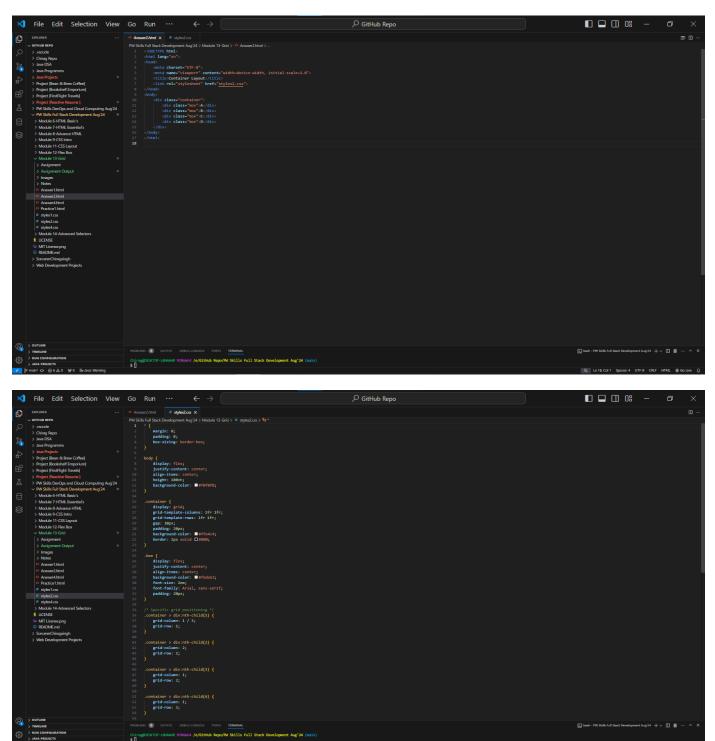
Module -13 Assignment

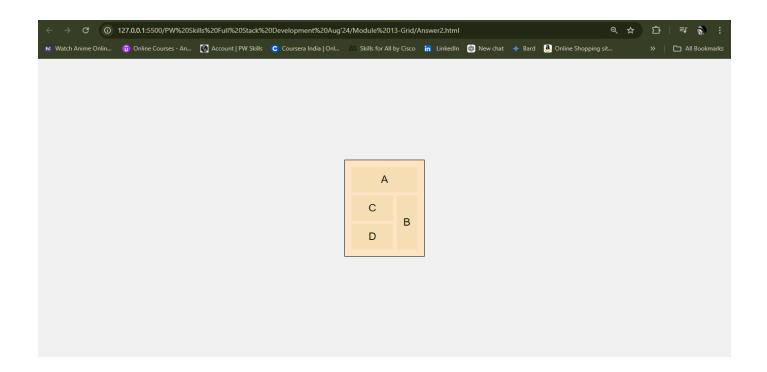
Q1.) Problem Statement: Create an image gallery using a CSS grid.





Q2.) Problem Statement: Write code to arrange containers with texts A, B, C, and D as shown in the below image.





Q3.) Problem Statement: Explain the use of grid-auto-row and grid-auto-column using code examples.

The grid-auto-rows and grid-auto-columns properties in CSS Grid Layout control the size of implicitly created rows and columns. These rows and columns are created automatically by the browser when there aren't enough rows or columns defined to fit the placed grid items.

1. <u>grid-auto-rows:</u> Specifies the size for automatically created rows (i.e., rows created by the grid layout when an item is placed outside the explicitly defined rows).

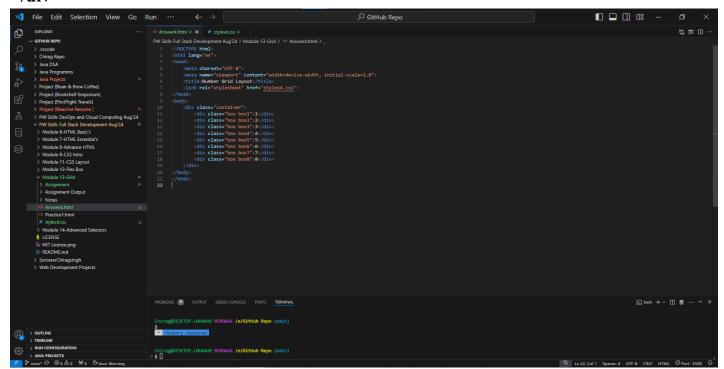
```
Example: <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <style>
     .container {
       display: grid;
       grid-template-columns: 100px 100px; /* Two columns */
       grid-auto-rows: 150px; /* Automatically created rows will be 150px tall */
       gap: 10px;
       background-color: #f0f0f0;
     }
     .box {
       background-color: #ffb6c1;
       display: flex;
       justify-content: center;
       align-items: center;
       font-size: 1.5em;
       height: 100px;
    /* Place the fourth box in the second row, which will be automatically created */
     .box:nth-child(4) {
       grid-column: 1; /* First column */
       grid-row: 2; /* Second row (auto-created) */
```

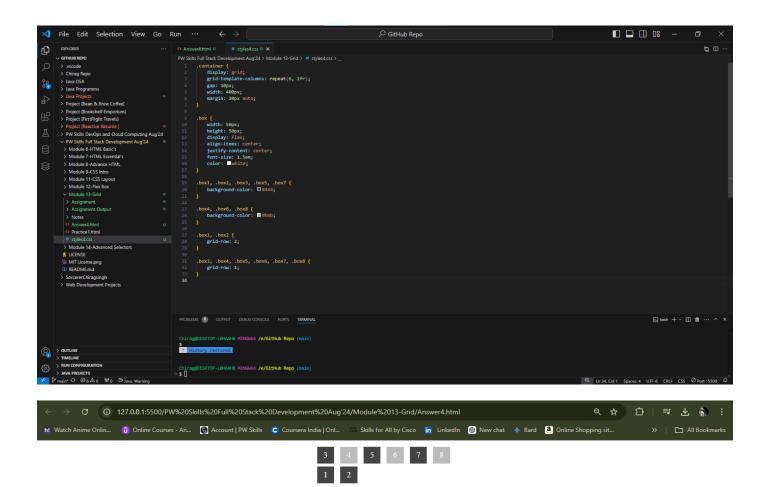
2. grid-auto-columns: Specifies the size for automatically created columns (i.e., columns created when an item is placed outside the explicitly defined columns).

```
Example: <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <style>
    .container {
       display: grid;
       grid-template-rows: 100px; /* One row */
       grid-template-columns: 100px 100px; /* Two columns */
       grid-auto-columns: 150px; /* Automatically created columns will be 150px wide */
       gap: 10px;
       background-color: #f0f0f0;
    }
    .box {
       background-color: #ffb6c1;
       display: flex;
       justify-content: center;
       align-items: center;
       font-size: 1.5em;
```

Q4.) Problem Statement: Write CSS to show numbers as shown in the figure, without altering the below html code.

</div>





Q5.) Problem Statement: Explain the difference between justify-items and justify-self using code examples.

In CSS Grid Layout, justify-items and justify-self are both used to control the horizontal alignment of grid items, but they work at different levels.

1. <u>justify-items</u>: Aligns all grid items within their grid cells along the row (horizontal) axis.

```
Example: <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <style>
    .container {
       display: grid;
       grid-template-columns: 100px 100px; /* Two columns */
       grid-template-rows: 100px 100px; /* Two rows */
       gap: 10px;
       justify-items: center; /* Align all items in the center horizontally */
       background-color: #f0f0f0;
    }
    .box {
       background-color: #ffb6c1;
       display: flex;
       justify-content: center;
       align-items: center;
       font-size: 1.5em;
```

```
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```

2. <u>justify-self:</u> Aligns a specific grid item within its grid cell along the row (horizontal) axis.

```
.box {
       background-color: #ffb6c1;
       display: flex;
       justify-content: center;
       align-items: center;
        font-size: 1.5em;
     }
     /* Specific alignments for individual grid items */
     .box:nth-child(1) {
       justify-self: start; /* Align box 1 to the start of its cell */
     }
     .box:nth-child(2) {
       justify-self: end; /* Align box 2 to the end of its cell */
     .box:nth-child(3) {
       justify-self: center; /* Align box 3 at the center of its cell */
     .box:nth-child(4) {
       justify-self: stretch; /* Box 4 stretches to fill its cell */
     }
  </style>
</head>
<body>
  <div class="container">
```

```
<div class="box">1</div>
<div class="box">2</div>
<div class="box">3</div>
<div class="box">4</div>
</div>
</div>
</body>
```

</html>