Assignment-16

Answer-1 : Grid- It is a CSS property that offers a grid-based layout system, with rows and columns, making it easier to design web pages without floats and positioning. CSS Grid Layout excels at dividing a page into major regions or defining the relationship in terms of size, position, and layer, between parts of a control built from HTML primitives.

Answer-2: Difference between grid and flex-

Grid : CSS Grid Layout, is a two dimensional grid based layout system with rows and columns, making it easier to design web pages without having to use floats and positioning. Like tables, grid

layout allows us to align elements into columns and rows. To get started we have to define a container element as a grid with 'display: grid', to set the column and row sizes with grid-template-columns and grid-template-rows, and then place its child elements into the grid with grid-column and grid-row.

Flexbox: The CSS Flexbox offers a one-dimensional layout. It is helpful in allocating and aligning the space among items in a container. It works with all kinds of display devices and screen sizes. To get started we have to define a container element as a grid with display: flex;

<u>Answer- 3</u> : There are below the way how to define grid-column-

1. **Value** : It is simple to define the grid-column. In this method we can easily give value in pixel, percentage, auto etc. **Example**: grid-template-columns : 100px 200px…;

2. **Repeat()-** The repeat() function is used to reduce repetitive declarations. Example- grid-template-columns: repeat(3 1fr);

3. **fr units -** The "fr" unit in CSS is a way to divide up the available space in a grid or layout. It is used to specify how much of the space should be given to a certain element or group of elements. It represents a fraction of the available space. Example : grid-template-columns : 1fr 1fr ;.

4. **minmax():** The minmax() function in CSS is used to set a range of values for a property. It sets a minimum and maximum value for a property. **Example** : grid-template-columns:minmax(10px 1fr);.

Way of define grid-template-row :

- Value : It is defined by values like pixel, percentage , auto, inch etc.
  Example : grid-template-row: 200px;

Answer-4 : Property of grid item- There two property of grid item-

Grid-column-start- By using this property , we define the starting point of column or row.

Grid-column-end- By using this property , we define the ending point of column or row.

Property of grid container- There two property of grid container-

Justify-items- The justify-items property in CSS is used to align the grid items along the horizontal (x) axis within their grid cell. It applies to all grid items within the grid container.

Align-item: The align-items property in CSS is used to align the grid items along the vertical (y) axis within their grid cell. It applies to all grid items within the grid container.