

# Grid

## Assignment

### Assignment Answer Sheet

#### 1.What is the grid

**Ans:- Grid in CSS:**

- **Purpose:** A layout system that allows for the creation of complex, responsive web designs using rows and columns.
- **Features:**
  - Defines grids with **grid-template-rows** and **grid-template-columns**.
  - Aligns and positions items within the grid using **grid-area**, **grid-column**, and **grid-row**.

**Example:**

## **Code**

```
.grid-container {  
  
    display: grid;  
  
    grid-template-columns: 1fr 2fr;  
  
}
```

**Use Case: Ideal for creating structured, responsive layouts.**

## **2.What is the difference between Flex and grid**

**AnS:-Flexbox vs. Grid in CSS:**

- **Flexbox:**

**Purpose: Best for one-dimensional layouts (either row or column).**

**Alignment: Aligns items along a single axis.**

**Use Case: Ideal for centering, spacing, and**

ordering items within a single row or column.

- **Grid:**

**Purpose:** Best for two-dimensional layouts (both rows and columns).

**Alignment:** Aligns items within a grid, managing both rows and columns.

**Use Case:** Ideal for creating complex, structured layouts with multiple rows and columns.

### **3.How can you define rows and columns for your grid**

**Ans:- Defining Rows and Columns in CSS Grid:**

- **Columns:** Use **grid-template-columns**.
  - **Example:** **grid-template-columns: 1fr 2fr;** (creates two columns, with the second one twice as wide).
- **Rows:** Use **grid-template-rows**.
  - **Example:** **grid-template-rows: 100px auto;** (creates two rows, first is 100px tall, second adjusts automatically).

**Purpose:** Specify the structure of the grid by setting the number and size of rows and columns.

**4. List any two properties of the grid item and grid container.**

**ANS:- Grid Container Properties:**

1. **display: grid;** - Turns an element into a grid container.
2. **grid-template-columns** - Defines the columns in the grid.

**Grid Item Properties:**

1. **grid-column** - Specifies which columns an item spans across.
2. **grid-row** - Specifies which rows an item spans across.

