# What is grid?

### The CSS grid layout offers a grid based system with rows and columns, making it easier to design web pages without having to use floats and positioning.

### A grid element consists of a parent element,with one or more child elements.

### An HTML element becomes a grid container when its display property is set to grid or inline-grid.

### All direct children of the grid container automatically become grid items.

# What is the difference between flex and grid?

# ***Dimensionality and flexibility***

### Flexbox offers greater control over alignment and space distribution between items.Being one dimensional ,Flexbox only deals with either columns and rows.

### Grid has two dimensional layout capabilities which allow flexible widths as a unit of length.This compensates for the limitations in Flex.

# *ALIGNMENT*

### Flex direction allows developers to align elements vertically or horizontally, which is used when developers create and reverse rows or columns.

### CSS Grid deploys fractional measure units for grid fluidity and auto keyword functionalty to automatically adjust columns and rows.

# How can you define rows and columns for your grid?

# *The grid -template -columns Property*

### The grid-template-columns property defines the number of columns in your grid layout and it can define the width of each layout.

### Example:

### .grid-container{

### display:grid;

### grid-template-columns:auto auto auto auto;

### }

### Note:if we have more than 4 items in a 4 columns grid,the grid will automatically add a new row to put the item in.

# *The grid-template-rows property*

### The grid-template-rows property defines the height of each row.

### Example:.grid-container{

### display:grid;

### grid-template-rows:80px 200px;

### }

# List any two properties of grid-items and grid-container?

# *Grid items property*

# The grid-column property

### The grid-column property defines on which columns to place an item.

### We define where the item will start and where the item will end.

# The grid-row property

### The grid-row property defines on which row to place an item.

### We define where the item will start and where the item will end.

# *Grid container property*

# The justify content property

### The justify content property is used to align the whole grid inside the container.

# The align content property

### The align content property is used to vertically align the whole grid inside the container.