Assignment 9

# Flex in CSS

**Q1) Describe the main difference between the CSS Flexbox layout model and the CSS Grid layout model. When will choose to use one over the other**

Ans: -The main difference between the CSS Flexbox layout model and the CSS Grid layout model is how they handle the organization and alignment of elements within a container:

1)Flexbox Layout Model:

Flexbox, or the Flexible Box layout model, is designed for arranging elements along a single axis (either horizontally or vertically) within a container.

2) Grid Layout Model:

CSS Grid is a two-dimensional layout system that allows you to create both rows and columns in a grid-like structure.

**Q2) Explain the roles of the following Key factors**

Ans: -

1) justify-content:

The justify-content property controls how flex items are aligned along the main axis (the primary axis of the flex container). The main axis direction is determined by the flex-direction property.

2)align-items:

The align-items property controls how flex items are aligned along the cross-axis (the perpendicular axis to the main axis). The cross-axis direction is determined by the flex-direction property.

3)gap:

The gap property (or its individual counterparts like gap-row and gap-column) sets the spacing between flex items in a grid or flex container.

4)flex-direction:

The flex-direction property determines the direction in which flex items are laid out within the flex container.

5)flex-wrap:

The flex-wrap property controls whether flex items should wrap to the next line or remain on a single line if they overflow the container's size along the main axis.