ANSWER 7-

CSS Grid:

CSS Grid is a two-dimensional layout system that enables you to create complex grid-based layouts.

It divides a container into rows and columns, allowing you to place elements in specific grid cells.

Grid allows you to control the size and position of both rows and columns, providing precise control over the layout.

It supports grid lines, grid tracks, and grid areas, allowing for versatile placement and alignment of elements.

Grid is well-suited for creating grid-based designs, such as magazine-like layouts, image galleries, and overall complex layouts.

Flexbox (Flexible Box Layout):

Flexbox is a one-dimensional layout system designed for simpler, flexible layouts along a single axis (either horizontally or vertically).

It focuses on the distribution of space and alignment of elements within a container.

Flexbox allows you to control the size and position of elements along the main axis (flex-direction: row or column).

It offers powerful features for flexing and wrapping elements, adjusting their order, and aligning them within a container.

Flexbox is particularly useful for building responsive designs, aligning elements in a row or column, or creating flexible content containers.

Main differences between CSS Grid and Flexbox:

Layout Model:

Grid is a two-dimensional layout system, providing control over rows and columns.

Flexbox is a one-dimensional layout system, focusing on alignment and distribution along a single axis.

Complexity:

Grid is more complex and capable of creating intricate grid-based layouts.

Flexbox is simpler and more suitable for simpler layouts or aligning elements in a row or column.

Axis:

Grid supports both horizontal and vertical positioning.

Flexbox focuses on either a horizontal or vertical layout.

Alignment:

Grid offers extensive control over alignment within cells, rows, and columns.