**CSS Flexbox**

**What is Flexbox?**

* CSS Flexible Box Module -> one-dimensional layout module.
* Aims at providing an efficient and easy way to align items in a container.

**Properties for the Parent (flex container)**

* **Display –** This defines a flex container; inline or block depending on the given value. (display: flex)
* **flex-direction -** This establishes the main-axis, thus defining the direction flex items are placed in the flex container
  + **row(default) –** Item in left to right
  + **row-reverse –** Item in right to left
  + **column –** same as row but top to bottom.
  + **column-reverse -** same as row-reverse but bottom to top.
* **justify-content -** defines how the browser distributes space between and around content items along the main-axis of a flex container, and the inline axis of a grid container. It contains multiple value like flex-start(default)/start, flex-end/end, left, right, center, space-between, space-around, space-evenly.
* **align-content -** This aligns a flex container’s lines within when there is extra space in the cross-axis, similar to how justify-content aligns individual items within the main-axis. It contains multiple value like flex-normal(default), flex-start/start, flex-end/end, center, space-between, space-around, space-evenly, stretch.
* **flex-wrap -** By default, flex items will all try to fit onto one line. You can change that and allow the items to wrap as needed with this property.
* **flex-flow -** This is a shorthand for the flex-direction and flex-wrap properties, which together define the flex container’s main and cross axes. The default value is row nowrap.

**Properties for the Children (flex items)**

* **order -** the order property controls the order in which they appear in the flex container (order: 4).
* **flex-grow -** This defines the ability for a flex item to grow if necessary (flex-grow: 3).
* **flex-shrink -** This defines the ability for a flex item to shrink if necessary (flex-shrink: 4 #defualt1).
* **align-self:** This allows the default alignment (or the one specified by align-items) to be overridden for individual flex items (align-self: center).