**Sass:-**

* Its an extension to CSS. Adding more features in CSS which helps dev to make CSS code more DRY (Don’t repeat yourself).
* Browser don’t support sass, so it convert in plain css in the end like typescript and javascript case .
* Best feature is automatically support cross browser compatibility. We don’t explicitily define prefix for browsers like webkit, moz, o etc
* Sass support two syntax
  + Indented (.sass) extension (old syntax)
  + Scss (.scss) extension (new syntax which is more close to plain CSS)
* We need to install vs code extension named “Live Sass Compiler ” which auto generate .css file of my .scss file, because browser don’t support sass it knows .css file .

**TOPICS:-**

**7 key features of Sass/Scss**

* Variables
  + Syntax:- $var-name : value
* Nesting
* Operators (+,-,\*,/) durimg calculation
* Map
  + Just like hashmap
  + Declared as variables but pass values in a (key : value) pair in parenthesis.
* Ampersand (&)
  + We use this in a child tag to target their parent tag
  + We use this in every situation of parent child tag for eg giving hover , focus , making before, after, tags etc
* mixin
  + Its just like regular functions in javascript
  + We can also pass parameter, arguments, default parameter to this function.
  + The main things is that we can change the values at run time .
  + We can use @include to call that mixin
* extend
  + its just like mixin but it values cant be change on run time. These values remain static.
  + It is used to share code between different classes or kind of inheritance in oop
  + Syntax:- @extend
* Partials
  + If we some global styling which I need on every page of my website just like button styling flexbox layout or any other style. So we wont be duplicate or copy paste these styles in every file but we create a partial file and put all global styles in this file . then we’ll import this file where we need that style rather than copy paste all code
  + This file has a prefix of underscore (\_ )and for eg:- \_partial.scss. In addition scss compiler wont generate .css file of this partial file.

**Note:-**

**We can also change the location of the .css file that generate scss compiler**

**Simply goto preferences > settings > extension > live sass compiler > Formats (Set your exported CSS file location ) > “savePath” : “/path/you-want-to-save-your-.css-files”**