**JavaScript**

* Introduction to Js :
  + Js Intorduced by Brendan Eich
  + Netscape’s Mocha
  + Mocha Name to JavaScript at 1995
  + ECMA in 1997 form it ECMA Script
  + Now Js is most popular & widely using for Client Side scripting

**What we can do using Js :**

* Using js we can modify the web page content
* Monitoring the events like mouse, Hover etc.,
* Create alert pop-ups to display the info. And give some waning messages
* Variables creation :
  + It’s used to store the data like strings, numbers, Objects[array]
    - Var a= “APSSDC”;
    - Var b=1;
    - Console.log(a);
  + Versions:
    - ECMA5 and below version **; is mandatory**
    - ECMA6 and above **; is not mandatory its working 90%**
  + Check the O/P in inspect Elements 🡪 right click on browser and choose **Inspect**
  + **Another way to open inspect elements use ctrl+shift+i**
  + If you are using System clink on **F12key**

**Rules to create Variable:**

* + It must be start with letters/\_(underscore)/$(dollar)
  + It’s can’t start with numbers
  + **It’s**  case sensitive

The variables can also be declared without having any initial value

Ex: var S;

S=”APSSDC”:

**Variables declaring multiple at once:**

**Var name=”APSSDC” ,age=4, gen=”Male/Female” ;**

**ES6 : have few more variable creations**

* **let & Const (function scoped variables)**
* **var a=10;**
* **let x=20**
* **function(){**
  + **let x=10**
* **}**
* **Const PI=3.14**
* Data types :
  + Statically(c,c++,etc)
  + Dynamically(js,Python,Ruby, etc)
* Es6 has 7 data types
  + Numbers :
  + Strings : “ “ / ‘ ‘
  + Boolean: True/False
  + Undefined :
    - Var a;
  + Null: nothing available
  + Object: key: value pair
  + JSON format {“car”: “red” ,”model”:”HUNDAI”}
  + Lat arr=[1,2,3,4,5]
* Conditional Statements:
* Looping:
  + For(init;cond;inc/dec){
  + **For in : loop through the properties of obj/Element of an array**
* DOM : (Document Object model)
* BOM