OOPs concept: Object Oriented Programming

Object: object is any real world entity.

Property or state \longrightarrow have \rightarrow pid, pname, age, phonenumber etc.

Person

Behaviour \rightarrow do/does \rightarrow action \rightarrow teaching(), listening(), sleeping() etc

Bank

Manager

Car

Customer

Object is a concept etc.

function or class

class: blue print of object or template of object or user defined data type which help to create the object.

In JavaScript till ES5 to create user defined object we are/were using function.

Function style object creation.

From ES6 onward we are using class concept to create the object.

Class style object creation.

In JavaScript object are divided into 2 types.

Pre defined object

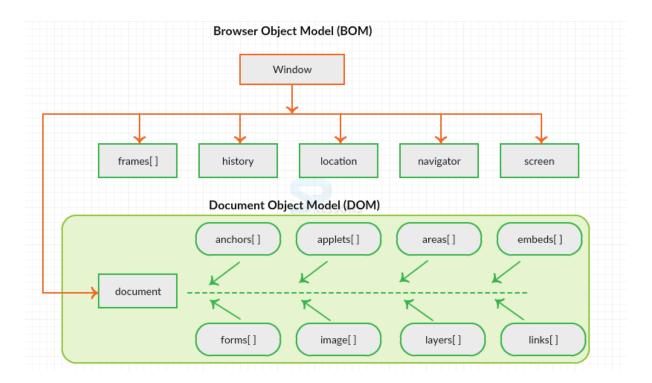
JavaScript provided two pre defined object hierarchy.

BOM: Browser Object Model

DOM : Document Object Model

Object -→ property or state or variable

Behaviour or function



document.write("Welcome");

document is a pre defined object and write a d pre defined object.

objectname.functionName();
to access that function()

objectname.propertyname to access the property value

index.html once we run any web page in browser internally it will create DOM Hierarchy.

	Html			
Head			body	
Title			div	Welcome
Style			р	
Script				
Meta				
DOM Parser: lot of programming I Function or methods which help to dynamically.				
1st Number				
2nd Number				
Result				
Add	Sub	Mul		Div

User defined object

Synchronization

ASynchronization

```
Statement Level
                                Synch
                                                one by one.
document.write("1st Statement");
document.write("2nd Statement");
document.write("3rd Statement");
Statement Level
                                ASynch
document.write("1st Statement");
                                        sync
        document.write("2nd Statement");
                                                ASynch
        document.write("3rd Statement");
                                                Asycn
if statement is asych that statement execute independently
Function level synch
fun1()
fun2()
fun3();
Function level asynch
fun1()
       fun2() asyn
fun3();
Client and Server Communication level
                                Sych
                                1<sup>st</sup>
                                2<sup>nd</sup>
                                3<sup>rd</sup>
Client
```

Server

ASych

1st

 2^{nd}

 3^{rd}

Client Server

AJAX : Asynchronous JavaScript and XML

In JavaScript if we want to create custom asynchronous operation we can use 3 pre defined functions

le

setTimeout : it will execute only one after specific time.

setInterval() : it will execute again and again after specific time.

clearInterval()