JavaScript :

JavaScript was object based interpreter scripting language till ES5.

From ES6 onward we can say JavaScript also object oriented interpreter scripting language.

To declare the variable we were using var keyword.

From ES6 onward we are using let and const keyword.

var a=10; declaration and initialization

a=20; assigning new value.

var a=30; re-declaration

let b=10;

b=20;

let b=30; error

for(var i=0;i<1000;i++) {

}

I

for(let j=0;j<1000;j++) {

}

j error

== ===

Function : function is use to write the set of instruction to perform a specific task.

1. Normal function declaration

function functionName(parameterList) {

function body;

}

1. Function no passing parameter and no return type.
2. Function passing parameter and no return type.
3. Function passing parameter and return value.
4. Expression style function

var/let functionName = functionBody;

let display = function() {

alert(“welcome to expression style function”);

}

1. Arrow function : arrow function base upon expression style function. Which help to write the shortest code.
2. Callback function : callback function mainly use to pass the function name or function body or function itself to another function as parameter

IIFE function : Immediate Invoke function expression

(functionBody)(functionCall)

1. Higher Order function : function that takes function as a parameter and return function.
2. Generator functions : it is a ES6 features which help to pause and resume function execution.