**JavaScript Basics :**

**Difference between let and var**

Variables declared by “let” are only available inside the block where they're defined. Variables declared by “var” are available throughout the function in which they're declared

* **variables**

(is like a box and you give label to that box according to the data stored in it )

// avoid this mistakes

// cannot be reserved keyword

// should be meaningful

// cannot start with a number (1name)

// cannot contain a space or hypen (-)

// Js are case Sensitive

“name” in “Js” is the property of the window object of the browser

* **constant**

(the value of the constant can not be change)

* **Primitives Types**

Primitives types are

Number

Boolean

String

Undefined

Null

* **Dynamic Typing**

Js is a dynamic language means that the type of the variable can change at the run time

e.g

typeof Name

'string'

Name = 12

12

typeof Name

'number’

* **Reference types :**

Object

Arrays

Functions

* **Object**

An object is a collection of Properties , e.g if a person he has following properties like name, age, address etc in this case a person is a object .So we use object when we have collection of properties.

Object have two notation :  
 1) dot notation

Person. Name = “ xyz” ; 🡪 dot notation

2) bracket notation

Person [‘Name’] = “xyz” ; 🡪 bracket notation

* **Arrays**

An array is also an object in js .An arrays is a data structure that we use to represent a list of item .

* **Functions**

a set of statements that performs a task or calculates a value