

## JavaScript :

JavaScript was known object-based interpreter scripting language.

From ES6 onward JavaScript is known as object-oriented interpreter scripting language.

Using JavaScript we can do programming on web page without server. Using JS we can read, write and update html content dynamically.

If we want to write JS code inside html page. We need to use tag as

`<script type="text/JavaScript">`                      opening tag

    We can do programming or coding

    document.write("Welcome to JS");

`</script>`    closing

document is pre-defined object and write is pre defined functions.

JS is case sensitive. In JS it is not mandatory every statement end with semi colon. In one html page we can write more than one script tag. These script tag can be in between head or body tag.

Inside script tag we can't use any html tags.

## Variable and data types

Variable : variable is a name which hold the value

a, b, fname, age, salary etc.

In JavaScript to declare a variable we can use the keyword as

var, let or const

**Data types** : data type is a type of data which tells what type of data it can hold. JS is known as loosely data type language. Base upon what type of value we stored the variable behave that type of data types.

var info;                                      undefined type consider as well as  
default value is undefined.

var id=10;                                      number type

var name="Steven";                              string type

var salary=25000.50                              number type

var result = true                              Boolean type

var obj = new Date()                              object type

**Operator** it is use to do some operation on those variable values.

Arithmetic operator : +, -, \*, / etc

Conditional operator : > , >= , < , <= , == , === : these condition operator result is Boolean value ie true or false.

Assignment operator : = it is use to assign the value to variable.

Logical operator :

and operator && ( both the condition must be true).

Or operator || (any condition must be true).

! (reverse of result).

Increment and decrement operator :

var a=10;

a=a+1      or      a++      increment operator

a=a-1      or      a--      decrement operator

## **JavaScript functions**

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

In Js function mainly divided into two types.

### 1. Pre defined function

- a. `typeof()`: this pre defined function is use to check data type of that variables.
- b. `prompt()` : this function is use to take the value through keyboard.
- c. `Alert()` : this function is use to display pop up message. The look and feel of alert is browser dependent.

If we receive value using prompt. By default those value string consider. So we need to convert string to number.

parseInt()	: it convert string to number without decimal
parseFloat()	: it convert string to number with decimal
eval()	: it convert string to number (with or without decimal).

**Conditional statement** : These statement execute base upon the conditions.

### **Simple if**

```
If(condition) {  
    True block execute  
}
```

### **If else**

```
If(condition) {  
    True block execute  
}else {  
    False block execute  
}
```

### **If else if**

```
If(condition1) {
```

```
}else if(condition2) {
```

```
}else if(condition3) {
```

```
}else {
```

```
}
```

### **2. User defined function**