

JAVASCRIPT

❖ Variables in Javascript

var a;	// variable declaration
var b = "aman gupta";	// string
var c = "Hi" + " " + "Aman";	// = "Hi Aman"
var d = 1 + 2 + "3";	// = "33"
var e = [2,3,5,8];	// array
var f = false;	// boolean
var g = /()/;	// RegEx
var h = function() {};	// function object
const PI = 3.14;	// constant
var a = 1, b = 2, c = a + b;	// one line
let z = 'zzz';	// block scope local

❖ Output in Javascript

console.log(a);	// write to the browse
document.write(a);	// write to the HTML
alert(a);	// output in an alert at browser
confirm("Really?");	// yes/no dialog, return yes or no
prompt("Your age?", "0");	// input dialog section

❖ Conditionals in Javascript

```
if(name=== "aman")
{
    console.log("you are aman");
}
else
{
    console.log("you are fake person");
}
```

❖ Loops in Javascript

- for loop
for(var i=1;i<=10;i++)
{
 console.log(i);
}
- while loop
var i=1;
while(i<=10)

```

    {
        console.log(i);
        i++;
    }

```

- **do-while loop**
var i=0;
do{
 console.log(i);
 i++;
}while(i<=10);

❖ **Adding Javascript to HTML**

- **On page script-**

```

<script type= "javascript" >
</script>

```
- **External**

```

<script src= "filename.js" ></script>

```

❖ **Functions in Javascript**

```

// definition
function multiply(a,b){
    return a*b;
}
//call
multiply(5,6);

```

❖ **Delay**

```

// this function is displayed after 1000ms/1sec.
setTimeout(function(){

},1000);

```

❖ **Edit DOM Element**

```

// DOM- Document Object Model

```

- By id
document.getElementById("id name").innerHTML= variable;
- By class
document.getElementsByClassName("class name").innerHTML= variable;

❖ Handling Errors in Javascript

```
try{  
    //body  
}  
Catch(err)  
{  
    Console.log(err.message);  
}  
○ Throw  
  
    throw "My error message";
```

❖ Arrays in javascript

```
var arr= ["aman", "Gupta", "is", "here"];  
var arr= new Array("my", "name", "is", "Aman Gupta");  
alert(arr[0]);           // output the 0th index of array.  
arr[1]= "new";           //update the 1st index value.
```

○ METHODS

```
arr.toString();           // convert to string.  
Arr.join(" ");           // join the array using spaces.  
Arr.pop();               // remove the last element.  
Arr.push("aman");        // add the element to last.  
Arr.sort();              // sort the array in ascending order.  
Arr.reverse();           // reverse the array.  
Var len= arr.length;     // get the length of array;
```