Script tag

```
<script type="text/javascript">
   ...
</s cri pt>
```

Basic

```
// One line comment
/*
Mult-line comment
*/
function addNum bers(a, b){
    return a+b;
}
```

Button

```
<button onclick="functionName()">click me</button>
...
<sc rip t>
        fun ction functi onN ame(){
               // Write what will happen after button is clicked here
       }
</s cri pt>
```

variables

`var a;`	create new variable
`var a = 10;`	create a new variable and assign value
`var b = " som eth ing ";`	create a new variable and assign string
`var c = [1, 12, 31, 45]`	create a new array with 4 elements in it
`c[0]`	access item 0 (first item) in array c

output

`consol e.l og(a)`	Output to browser developer console
`docume nt.w ri te(a)`	Directly write to end of HTML document
`alert(a)`	Display popup box with the message
`docume nt.g et Ele men tBy Id( " xxx " ).i nne rHT ML= a;`	Element ID "xxx" content replaced with the message

Input

`var a = prompt ("qu est ion ", default);`	Popup box ask question, assign value to a
`var a = docume nt.g et Ele men tBy Id( " xxx " ).val ue`	xxx is a textbox's id, and the value in textbox assigned to a

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Loops

```
// For loop
for(var i=0; i<10; i++){
        doc ume nt.w ri te(i);
}
// For loop printing everything in array (arr)
// method 1
for (var i=0; i< arr.le ngth; i++){
        doc ume nt.w ri te( arr [i]);
}
// method 2
for (var i of arr){
        doc ume nt.w ri te(i);
}
// while loop
// also outputing everything in arr
var i=0;
while (i< arr.le ngth){
        doc ume nt.w ri te( arr [i]);
       i++;
}
```

conditions

```
// If
if (a>b){
   // a > b
}else if (a==b){
   // do when a equals to b
}else{
   // everything else
}
```

Logical

a==b	equals
a!=b	not equals
a>=b	a larger than or equals b
a <=b	a smaller than or equals b
&&	Logical and, e.g. (3>1) && (3<10), used in if
||	Logical or, e.g. (3>1) || (3<-1), used in if
!	Logical not, e.g. a!=b same as !(a==b)

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