**STRING METHODS:**

function string\_methods(){

var str='A string can be tested with string methods';

var pos=str.indexOf('string');

console.log(pos);//2

pos=str.lastIndexOf('string');

console.log(pos);//29

pos=str.search('string');// it may be string or regular expression

console.log(p);//2

var re=/string/i

pos=re.test(str);

var p=str.match(re)

console.log(pos);

console.log(p)

re=/string/g

pos=str.match(re);

console.log(pos);

pos=re.exec(str);

console.log(pos);

pos=str.replace('string','JavaScript');

console.log(pos);

var a='javascript';

var str1=a.slice(2);

console.log(str1);

var b='abcde'

var c=b.split(',');

console.log(c)

c=a.substring(2,4)//va

console.log(c)

var d=b.toUpperCase();

console.log(d);

d=b.toLowerCase();

console.log(d);

d=b.charAt(0)

console.log(d);

}

**CONDITIONAL STATEMENTS:**

**Break:**

for(let i=0;i<5;i++) {

if (i==3) {

break;

}

console.log(i);

}

Output:

0

1

2

**Continue:**

for(let i=0;i<5;i++) {

if (i==3) {

continue;

}

console.log(i);

}

Output:

0

1

2

4

**if- else if- else:**

var a=prompt("Enter a number:");

a=parseInt(a);

if(a>0) {

console.log("positive number:",a);

} else if(a<0) {

console.log("Negative number:",a);

} else {

console.log("Zero",a);

}

**Switch:**

var a=prompt("Enter your choice:");

switch(a) {

case '1': var a1=parseInt(prompt("Enter a number:"));

var a2=parseInt(prompt("Enter a number:"));

var a3= a1+a2;

console.log("Addition: ",a3);

break;

case '2': a1=parseInt(prompt("Enter a number:"));

a2=parseInt(prompt("Enter a number:"));

a3= a1-a2;

console.log("Subtraction: ",a3);

break;

case '3': a1=parseInt(prompt("Enter a number:"));

a2=parseInt(prompt("Enter a number:"));

a3= a1\*a2;

console.log("Multiplication: ",a3);

break;

case '4': a1=parseInt(prompt("Enter a number:"));

a2=parseInt(prompt("Enter a number:"));

a3= a1/a2;

console.log("Divison: ",a3);

break;

default:

console.log("invalid choice");

}

**For loop:**

var n=parseInt(prompt("Enter a number:"));

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

if(i%2 === 0)

{

console.log(i)} }

**while:**

var n=parseInt(prompt("Enter a number:"))

var i=0;

while(i<n){

console.log(i);

i++;

}

Output:

0

1

2

3

4

5

6

7

**Do while:**

var i=0;

var n=parseInt(prompt("Enter the length:"));

var a=[];

do{

a[i]=prompt ();

i++;

} while(i<n);

console.log(a)

output:

*(5) ["hello", "chai", "lalli", "bindu", "anantha"]*

* 1. 0: "hello"
  2. 1: "chai"
  3. 2: "lalli"
  4. 3: "bindu"
  5. 4: "anantha"
  6. length: 5

**Operators(== & ===):**

function operators()

{

var a=10;

var b='10';

var c= (a == b); //true

console.log(c);

c=(a === b);

console.log(c);//false

a=null;

b=undefined;

c= (a == b)

console.log(c);//true

c=(a === b);

console.log(c);//false

a=null;

b=null;

c= (a == b)

console.log(c);//true

c=(a === b);

console.log(c);//true

a=undefined;

b=undefined;

c= (a == b)//true

console.log(c);

c=(a === b);//true

console.log(c);

a='Hello';

b='World';

c= (a == b)

console.log(c);//false

c=(a === b);

console.log(c);//false

a=[1,2,3,4];

b=[1,2,3,4];

c= (a == b)

console.log(c);// false

c=(a === b);

console.log(c);// false

}

**Array comparison:**

function obj\_comp(a,b){

var i=a.length;

if(i != b.length) return false;

while(i--){

if(a[i] != b[i]) return false;

}

return true;

};

**Hoisting:**

Variable hoisting:

1)

console.log(hoist);

var hoist= 'The variable has been hoisted';

console.log(hoist);

2)

function hoist(){

console.log(msg);

var msg='hello!';

console.log(msg);

}

hoist();

function hoisting:

defin\_hoist();

defin\_NotHoist();

function defin\_hoist(){

console.log('Definition Hoisted!');

}

var defin\_NotHoist=function(){

console.log(Definition not hoisted”);

};