**16/12/2021**

**Sqrt():-**

**=>**Sqrt function is used to return square root value of given number.

**=>**negative value is not acceptable here.

**=>**if we try to provide negative value then it returns NaN (Not a Number).

**Syntax:**

Math.sqrt(number);

Exa:

document.write(Math.sqrt(16))//4

document.write(Math.sqrt(-16))//NaN

Document.write(Math.PI)//3.14

**cbrt():**

**=>**cbrt function is used to return cube root value of given number.

=>Negative value is acceptable here.

**Syntax:**

Math.cbrt(number)

Exa:-

document.write(Math.cbrt(27));//3

document.write(Math.cbrt(-27));//-3

**pow():-**

=>pow function is used to calculate power value wrt x power y.

=>x=Base value

=>y=Power value

**Syntax:-**

Math.pow(x,y);

Exa:-

document.write(Math.pow(2,4))//16

**min():**

**=>**min function is used to return minimum value of given numbers.

**Syntax:**

Math.min(number1,number2,………number)

Exa:

document.write(math.min(10,20,30,40))//10

**max():-**

**=>**max function is used to return maximum value of guven numbers.

**Syntax:-**

Math.max(number1,number2,number3….numberN)

Exa:

document.write(math.max(10,20,30,40))//40

**log():-**

log function is used to return logarithm value of give number wrt base.

**Syntax:**

Math.log(Number)

Exa:

=>document.write(Math.log(10))//2.3025

**ArrayObject:-**

Syntax:

Var obj={propertyName1:value1, propertyName2:value2……… propertyNameN:valueN}

Example:

<script>

var obj={

name:"suraj",

college:"gp aurai",

age:20,

contact:7518141123

};

document.write("Name is : "+obj.name+"<br/>");

document.write("College is : "+obj.college+"<br/>");

document.write("Age is : "+obj.age+"<br/>");

document.write("Contact is : "+obj.contact+"<br/>");

</script>

**Object:**

**=>**object is a collection of property (variable) and methods

(function)

**Syntax:**

Var objectName={propertName1:value1, propertName2:value2, propertName3:value3,…. propertNameN:valueN}

**OR**

Var objectName={propertyName1:value,methodName:MethodDefination,…….methodNAme:MethodDefinationN}

**Example:-**

var student={

                name:"suraj yadav",

                college:"gp aurai",

                age:21,

                address:"jaunpur",

                demo:function myfun(){

                    document.write("Welcome to ecma script");

                },

                demo1:function (){

                    document.write("i am from fun2");

                },

                branch:"cs"

            }

How to access property and method from object

**Syntax:**

objectName:propertyName

objectName:methodName

**Example:**

document.write(student.name);

document.write(student.college);

document.write(student.age);

document.write(student.address);

document.write(student.branch);

student.demo()

student.demo1()

Array of Object:

=>It is collection multiple object.

**Syntax:**

var arrobj=[{},{},{},{},{}…………….{}];

**Example:**

<script>

    var arrobj=[

        {name:"Suraj",college:"gp aurai",age:"22",branch:"cs"},

        {name:"mahesh",college:"gp aurai",age:"32",branch:"It"},

        {name:"Shubham",college:"gp jaunpur",age:"23",branch:"elex"},

    ]

</script>

How to access Element of array of object

document.write(studentInfo[0].name+"<br/>")

    document.write(studentInfo[0].college+"<br/>")

    document.write(studentInfo[0].age+"<br/>")

    document.write(studentInfo[0].branch+"<br/>")

    document.write(studentInfo[1].name+"<br/>")

    document.write(studentInfo[1].college+"<br/>")

    document.write(studentInfo[1].age+"<br/>")

    document.write(studentInfo[1].branch+"<br/>")

    document.write(studentInfo[2].name+"<br/>")

    document.write(studentInfo[2].college+"<br/>")

    document.write(studentInfo[2].age+"<br/>")

    document.write(studentInfo[2].branch+"<br/>")