Parenthesis – ()

Curly bracket- {}

**<script src="settings.js" type="text/javascript" ></script>**

**Output System**

Alert Output

InnerHtml Output

Document Output

Console .log Output

**Alert Output**

window.alert();

<button onclick="alert('hellow')">Click Me</button>

<button onmouseover="alert('hello faisal')">Clcik Me</button>

<marquee onmouseover="this.stop()"; onmouseout="this.start()";>HELLOW ROMIJ</marquee>

InnerHtml Output

document.querySelector();

document.getElementById();

document.getElementsByClassName();

document.getElementsByTagName();

<script type="text/javascript"> ( html class=”myname”)

document.querySelector('.myname').innerHTML="Faisal Habib";

document.querySelector('.myname').innerHTML="<h1>Faisal Habib</h1>";

</script>

**Console .log Output**

<script type="text/javascript">

console.log("hello faisal");

</script>

Document Output

document.write();

<script type="text/javascript">

document.write('i am faisal habib');

</script>

Variable

Variable= চলক kono data ke store kore rakha jai,and barbar use kora jai | x= 20 y=Hellow z=2020

Javascript Uases - var let const

="x" (text) - =x (code)

==================================

var x= 20 ; var x="<a href='#'> Clcik Me </a>"; style use korte pari

var y= 30 ;

document.querySelector('#romij').innerHTML= x+y ; ( html= 50 )

var x= "20" ;

var y= "30" ;

document.querySelector('#romij').innerHTML= x+y ; ( html= 2030 )

Operators

**+ - \* / \*\*= sqare kora ++ = 1 jog -- = 1 biyog**

var number1= 20;

var number2= 10;

var results= number1 + number2;

document.querySelector('#romij').innerHTML= results;

====================

**//** one line comment off /\* onek line comment off \*/

============

var number1= 8;

var results= number1 \*\* 2;

document.querySelector('#romij').innerHTML= results;

var number1= 8;

var results= ++ number1;

document.querySelector('#romij').innerHTML= results;

Data Types

1. String
2. Number
3. Object
4. Boolean
5. Arry (ORIGINALLY OBJECT)
6. Null
7. Undefined

document.querySelector('#romij').innerHTML = typeof x;

**String –** " " কোটেশনের মধ্যে যা কিছু থাকবে তাই String Type data;

var x= "hellow World"

document.querySelector('#romij').innerHTML = typeof x;

**Number-** 123456

**Object-**

Var x = {name:"romij",address:"khoksha",profession:"student"}; (object)

২য় বিরাকেটের মধ্যে থাকবে ;

**Array-**

var x= ["romij","faisal","habib"]; ( arryay but javascript object)

৩য় বিরাকেটের মধ্যে থাকবে ;

**Boolean-**  var x= true & falase; এর দুইটা মান থাকে ;

**Null-** var x= null; ফাকা বা কিছুই নাই

**Javascript Comparison operators**

Comparison – তুলনা করা

== Equals to something;

=== Equals value & type to something;

< ( 5<20 ? true ) Less than to something;

> Greater than to something;

<= ( 25>=20 ? true ) Equal or Less than to something;

>= ( 10>=5 ? true ) Equal or greater than to something

&& And || Or ! not ? comparison

!= , Not version of “==” operator;

!== , not version of “===” operator;

!5<20 not version of less than

!25>=20 not version of Equal or Less than

**== Or ===**

var regPassword = "faisal123"

var userInpuPass = "faisal123"

var results = (regPassword **===** userInpuPass) ? "true":"false";

document.querySelector('#romij').innerHTML= results;

var results = (regPassword **!=** userInpuPass) ? "true":"false";

**< >**

var minAge = 18;

var regAge = 17; (regAge boro hote hobe)

var results = (minAge **<** regAge) ? "true":"false";

document.querySelector('#romij').innerHTML= results;

not version

var results = ( **(** minAge **<** regAge) **== false/true )** ? "true":"false";

**<= Or >=**

var mainAge = 18;

var regAge = 18; (boro or shoman hote hobe )

var result = ( mainAge **<=** regAge ) ? "you can register":"you cannot

register";

document.querySelector('#romij').innerHTML= result;

**|| or**

var typePersone= “parents”

var result = ( typePersone ==”techer” || typePersone ==”medam” || typePersone ==”parents”) ? “unlock your phone”:”Wrong password”;

document.querySelector(‘#romij’).innerHTML= result;

**&& and**

var country = "bangladesh";

var age = 18;

var profession = "techer";

var result =( country=="bangladesh" && age== 18 && profession=="techer") ? "welcome":"don' macth";

document.querySelector('#romij').innerHTML = result;

**|| or &&**

var country= "bangladesh";

var age= 18;

var profession="techer";

var result=( ( country=="bangladesh" || country=="india" || country=="pakistan") && ( age== 18 && profession=="techer") ) ? "welcome":"don' macth";

document.querySelector('#romij').innerHTML= result;

**Function / Method**

1. **Direct**
2. **Return**

Type Rules= function name ( ){ }

**Direct**

function taxCalculator(){

var price= 15000;

var tax= 12;

result= (price/100\*tax);

document.querySelector('#romij').innerHTML=result;

}

taxCalculator(); \_\_\_\_Call

**Return**

function demo(){

return "romij + faisal";

}

function demo2(){

return " ami + tumi"

}

document.write(demo() +" amra + tomra "+ demo2() );

Function full

function demo(priceAmount,taxAmaount,man){

var ProductPrice= priceAmount;

var ProductTax= taxAmaount;

totalPrice=(ProductPrice/100\*ProductTax+ProductPrice);

return totalPrice + " by"+man;

}

document.querySelector('#gedu').innerHTML= demo(15000,12," lam");

document.querySelector('#romij').innerHTML= demo(1000,2," faisal");

function expression

var car = function(){

var a= 20;

var b= 30;

console.log(a+b);

}

car();

Nested Fucntion

function name(){

return "My name is: "

}

function fullName(){

return name() + "Romij";

}

function fullnameage(){

return fullName() + " My age is 19 years"

}

console.log(fullnameage());

Nested Peramitar Fucntion

function myname(name){

return "my name is :" + name;

}

function nameAge(age){

return myname(" romij ") + " My age is " + age;

}

console.log(nameAge("20"));

**Object**

Object- **property**

- **method**

**Object- property kaj korai (var)**

**Car Name: <span id="name"></span><br>**

**Price: <span id="price"></span> <br>**

**Color: <span id="color"></span><br>**

**Wheel Size: <span id="whsize"></span>**

**var car = {**

**name: "Toyota",**

**price: 1500000,**

**color: "red",**

**WheelSize: "14"**

**}**

**document.querySelector('#name').innerHTML= car.name;**

**document.querySelector('#price').innerHTML= car.price;**

**document.querySelector('#color').innerHTML= car.color;**

**document.querySelector('#whsize').innerHTML= car.WheelSize;**

**Object- Method kaj korai (function)**

**var car = {**

**name: "toyota",**

**price: 1000,**

**tax: 2,**

**color: "blue",**

**wheelSize: "15",**

**adbanner: function(){**

**var carPrice= this.price;**

**var tax= this.tax;**

**var totalPrice= carPrice/100\*tax + carPrice;**

**var dis= 2;**

**var reduceMoney= totalPrice/100\*dis;**

**var final= totalPrice-reduceMoney;**

**return final;**

**}**

**}**

**document.querySelector('#name').innerHTML= car.name;**

**document.querySelector('#price').innerHTML= car.price;**

**document.querySelector('#tax').innerHTML= car.tax;**

**document.querySelector('#color').innerHTML= car.color;**

**document.querySelector('#whsize').innerHTML= car.wheelSize;**

**document.querySelector('#title').innerHTML= car.adbanner();**

**Object 2nd way**

**var car ={};** (property)

**car.name="toyota";**

**car.price="1000";**

**car.color="red";**

**car.tax="4";**

**car.method=function(a,b){** (function)

**return a + b;**

**}**

Delete car.price;

**console.log(car.method(5,5));**

**ARRAY Javascript**

**var car= ["toyota","1000","black",]**

**console.log(car[0]);**

**console.log(car[2]);**

**Nasted-ARRAY**

**var car= ["toyota","1000",["black","red","blue"] ]**

**console.log( car[2] [1] );**

**new Array**

**var employess= new Array ("romij","habib","fasal","ddf","dadff");**

**console.log(employess[2]);**

**Array Standard Way**

**var employ=[ ];**

**employ[0]="faisal";**

**employ[1]="habib";**

**employ[2]="romij";**

**console.log(employ[ 1 ] );**

**-----------**

**var employ=[];**

**employ[0]="faisal";**

**employ[1]=["habib", "khan", "kabil", "lullu"];**

**employ[2]="romij";**

**console.log(employ[1][3]);**

**name property change**

**var employ=[ ];**

**employ["name"]="romij";**

**employ["age"]="19";**

**employ["address"]="khoksha"**

**console.log(employ["address"]);**

**Nasted Starndad Arry**

**var hobby=[];**

**hobby["first"]="freeluncher";**

**hobby["second"]="gaming";**

**var employ=[];**

**employ["name"]="romij";**

**employ["age"]="19";**

**employ["address"]="khoksha"**

**employ["hishobby"]= hobby;**

**console.log(employ["hishobby"]["second"]);**

**Loop**

**While loop**

**var x=0;**

**while(x<=20){**

**console.log("romij");**

**++x;**

**}**

**------------------------**

**numbering**

**var x=0;**

**while(x<=20){**

**console.log(x);**

**++x;**

**}**

**-------------------------------**

**Difarent id numbering**

**var x=0;**

**while( x < 10 ) {**

**var idnumber= Math.random()\*99999;**

**console.log(idnumber.toFixed());**

**++x;**

**}**

**---------------------------**

**Onekgulo array object er vetorer data access**

**var namelength= demo.length;**

**var runcode=0;**

**while(runcode<namelength){**

**console.log(demo[runcode]["name"]);**

**++runcode; }**

**For Loop**

**for( var x=0; x < 20; ++x ){**

**console.log( x );**

**}**

**=======**

**While Do loop**

**var x= 4;**

**do {**

**console.log(x+" Romij");**

**++x;**

**} while(x<=5)**

**================**

**For Of loop (array)**

**var names=["romij","faisal","habib","geda","khan"]**

**for( let name of names ){**

**console.log (name);**

**};**

**========================**

**For in loop (object)**

**var names={**

**fname:"faisal",**

**lname:"habib",**

**age: 15,**

**hobby:"making"**

**}**

**for(let name in names){**

**console.log(names[name]); OR ( duitai dekhte caile)**

**console.log(`property: ${name} value:${names[name]}` );**

**forExach Loop (array)**

namee.forEach( function(){} )

**var names=["romij","faisal","habib","khan"]**

**names.forEach(function(values,index){**

**console.log(index+values);**

**});**

**If else**

**var password="faisal123";**

**var userInput="faisal123"**

**if(password===userInput){**

**console.log("yes!Logged In");**

**} else{**

**console.log("Wrong Password")}**

**Else If (multiple condition)**

let submark=32;

if(submark >= 80 && submark <= 100){

console.log("A+")

}else if(submark >= 70 && submark < 80){

console.log("A")

}else if(submark >= 60 && submark < 70){

console.log("A-")

}else if(submark >= 33 && submark < 60){

console.log("C")

}else{

console.log("Sorry! You Are Failed")

}

**Alert**

var age= 50;

if (age>=18){

alert("You are Elegible");

}else{

alert("You are Young!");

}

**Confirm Box**

var cbox= confirm("are you sure");

**if(cbox==true){**

**alert("you press OK");**

**}else{**

**alert("Press Cancled");**

**}**

**OR**

if(cbox==true){

window.location.href="https://www.google.com"

}else{

}

**Switch**

**var day=1;**

**switch (day) {**

**case 1: console.log("today is suterday");**

**break;**

**case 2: console.log("today is sunday");**

**break;**

**case 3: console.log("today is monday");**

**break;**

**case 4: console.log("today is tuesday");**

**break;**

**default:**

**}**

**Prompt**

**var pbox= prompt("Enter your Number");**

**if(pbox>=33 && pbox<50){**

**console.log("You are last Division");**

**}else if(pbox>=50 && pbox<70){**

**console.log("you are second Division");**

**}else if(pbox>=0 && pbox<33){**

**console.log("you are failed");**

**}else{**

**}**

**Truthy & Falsy value**

**Falsy value= Undefined, ' ', 0, nan;**

**Truthy value= not a falsy value**

**Events**

**Onclick = Click kora**

**Onmouseover = hover**

**Onmouseout**

**Ondblclick = double click**

**Oncontextmenu = right button click**

**Math .random (ludo style)**

**let uppervalue=6;**

**let lowervalue=0;**

**var name= Math.floor(Math.random()\*6) + 1;**

**console.log(name);**