**Simple output**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <script>

       alert("everyOne");

       document.write("Hello");

        console.log("Hi");

    </script>

</body>

</html>

**Print address**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <script>

       document.write("Name: Mitu Rani Das <br/> " );

       document.write("Age: "+ 25 +"<br/>");

       document.write("Phone:  08954336567<br/>");

       document.write("Emil: mitu@gmil.com");

    </script>

</body>

</html>

**Inline, internl, external js**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

    <script>

        alert("you");//internl js

    </script>

</head>

<body onload="alert('hi');"> //inline js

    <script src="in.js"></script>//external js

</body>

</html>

**comment**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body >

    <script>

 /\*  document.write("Name:Shamanto<b/>"); //multi-line comment

     document.write("Age:"+9);\*/

     document.write("Name:Saikat<br/>" );

    // document.write("Name:Sonjoy<br/>" ); //single line comment

     document.write("Age:" +15);

    </script>

</body>

</html>

**Variable**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body >

    <script>

    var name, age;

    name="shimanto"; // name is variable, shimanto is data type

    age=20;

    document.write(name);

    document.write(age);

    </script>

</body>

**String Concatenation**

  var name, age;

    name="shimanto";

    name2="das";

     // name is variable, shimanto is data type

    age=20;

    document.write("ADD"+"FUNCTION <br/>");

    document.write(name+name2);

**Library function of String**

 var text="Bangladesh";

   var1=text.length;

   document.write("Number of character:"+var1);

**prompt**

 var text=prompt("Enter your name");

   var1=text.length;

   document.write("Number of character:"+var1);

**number of index:**

 var text="Enter your name";

   var1=text.charAt(2);

   document.write("Number of index:"+var1);

**UpperCase:**

 var text="Enteryourname";

   var1=text.toLocaleUpperCase();

   document.write("Number of index:"+var1);

**lowercase:**

 var text="EnterYourName";

   var1=text.toLowerCase();

   document.write("Number of index:"+var1);

**Concat:**

 var text="Enter Your Name";

   var text2= "My name is shimanto";

   var1=text.concat(text2);

   document.write("full sentence:"+var1);

**Slice:**

var text= "shimanto";

   var text2=text.slice(2,5);

   document.write(text2);

**Assignment1**

 var text=prompt("First Name");

 var text1=prompt("Last Name");

 var text2=text.concat(text1);

 document.write("Print full Name:"+text2);

**Arithmetic operator**

var num1=prompt("Enter first Number");

var num2=prompt("Enter second Number");

num1=parseInt(num1,10);

num2=parseInt(num2,10);

var sum=num1+num2;

var sub=num1-num2;

document.write("Addition:"+sum+"<br/>");

document.write("Substraction:"+sub+"<br/>");

**Assignment2**

var num1=prompt("Enter first Number");

var num2=prompt("Enter second Number");

num1=parseInt(num1,10);

num2=parseInt(num2,10);

var sum=num1+num2;

var sub=num1-num2;

var mult=num1\*num2;

var division=num1/num2;

var remainder=num1%num2;

document.write(num1+" +"+ num2+"="+sum+"<br/>");

document.write(num1+"-"+num2+"="+sub+"<br/>");

document.write(num1+"\*"+num2+"="+mult+"<br/>");

document.write(num1+"/"+num2+"="+division+"<br/>");

document.write(num1+"%"+num2+"="+ remainder);

Area of various shapes

var base=prompt("Enter the base:");

var height=prompt("Enter the height");

var area=base\*height;

document.write("area:"+area);

Temperature Converter

var Fahrenheit=parseFloat( prompt("Enter the Fahrenheit:"));

var Celsius= (Fahrenheit - 32) \* 5/9;

document.write("Celsius:"+Celsius);

var Celsius =parseFloat( prompt("Enter the Celsius:"));

var Fahrenheit  = (Celsius  \* 9/5 ) + 32;

document.write("Fahrenheit :"+Fahrenheit );

 if, else if, else

var num=prompt("Entern number:");

if(num%2==0)

{

    document.write("even");

}

else

{

    document.write("odd");

}

object

var student={

    name:"Shimanto",

    age:33,

    cgpa:2.60,

    language:["bangla","english", "hindu"],

}

document.write(student.name );

document.write(student.age);

document.write(student.cgpa);

document.write(student.language);

**Constructor**

 function student(name, age, cgpa, language){ //add constructor

   this.name=name;

   this.age=age;

   this.cgpa=cgpa;

   this.language=language;

}

var student1=new student("Shimanto", 11, 4.5, ["Bangla", "English", "hindi"]); //value assign in object

var student2=new student("saikat",15, 4.7, ["Bangla", "English", "hindi"]);

document.write(student1.name); //print value

document.write(student1.age);

document.write(student1.cgpa);

document.write(student1.language);

document.write(student2.name);

document.write(student2.age);

document.write(student2.cgpa);

document.write(student2.language);   //

**Adding function inside constructor**

function student(name, age, cgpa, language){ //add constructor

   this.name=name;

   this.age=age;

   this.cgpa=cgpa;

   this.language=language;

   this.display=function(){

       console.log(this.name);

       console.log(this.age);

       console.log(this.cgpa);

       console.log(this.language);

   }

}

var student1=new student("Shimanto", 11, 4.5, ["Bangla", "English", "hindi"]); //value assign in object

var student2=new student("saikat",15, 4.7, ["Bangla", "English", "hindi"]);

student1.display();  //function call

student2.display();

**Maximum number**

var num1=prompt("Enter the first number");

var num2=prompt("Enter the second number");

var maximum=Math.max(num1,num2);

console.log(maximum);

Guessing Game

var numOfwin=0;

var numOfLost=0;

for(var i=0; i<=5; i++)

{

var guessNumber= parseInt (prompt("Enter a number from 1 to 5"));

var randomNumber=Math.floor(Math.random()\*5) +1;

if(guessNumber==randomNumber)

{

    console.log("you have won");

    numOfwin++;

}

else

{

    console.log("you have lost.Random number was"+randomNumber);

    numOfLost++;

}

}

document.write("Number of win"+numOfwin+"<br/>");

document.write("Number of lost"+numOfLost);

Date object & it's methods

var date=new Date();

console.log(date);

var year=date.getUTCFullYear();

console.log(year);

var month=date.getUTCMonth();

console.log(month);

var hour=date.setHours(hour);

console.log(hour);

**Array**

var names=new Array(45);

names[0]="shimanto";

names[1]="saikat";

names[2]="noyun";

names[3]="Arjun";

names[4]="mithü";

names[5]="shama";

console.log(names[0]);

**push , pop array**

var names=["tyu", "ascr", "kji", "tyuio", "gtrewq", "ftyrew", "poiuyt"]

console.log(names.length);

names.push("shimanto");

console.log(names);

console.log(names.length);

names.pop();

console.log(names);

names.pop();

console.log(names);

**concate function array**

var names=["tyu", "ascr", "kji", "tyuio", "gtrewq", "ftyrew", "poiuyt"]

var id=[1,3,77,88,99,44,33];

var total=names.concat(id);

console.log(total);

**loop in array**

var num=[11,33,78,88,99,44,30];

var sum=0;

for(var i=0; i<=6; i++)

{

    console.log(num[i]);

    sum=sum+num[i];

}

console.log(sum);

**user define array**

var num=new Array();

for(var i=0; i<=6; i++)

{

    num[i]=parseInt(prompt("Enter the number"));

}

var sum=0;

for(var i=0; i<=6; i++)

{

    console.log(num[i]);

    sum=sum+num[i];

}

console.log("Total sum"+sum);

**shift array**

var num=[1,33,44,55,66]

console.log(num);

num.shift();

console.log(num); // shift is oposite of opp

**unshift array**

var num=[1,33,44,55,66]

console.log(num);

num.unshift(8);

console.log(num); // unshift is oposite of push

**Splice array**

var num=[1,33,44,55,66]

console.log(num);

num.splice(3,0,3);

console.log(num); //splice value add and remove

**slice array**

var num=[1,33,44,55,66]

console.log(num);

var newArray=num.slice(3);// number of 3 array remove

console.log(newArray);

**sort array**

var num=[99,33,77,66,44];

console.log(num);

var n=num.sort();

console.log(n);

**reverse array**

var num=[99,33,77,66,44];

console.log(num);

var n=num.sort();

console.log(n);

var n=num.reverse();

console.log(n);

**function**

function square(num)

{

    var result=num\*num;

    document.write(result+"<br/>");

}

 square(5);

 square(6);

**multi parameter function**

function square(num1,num2)

{

    var result=num1\*num2;

    document.write(result+"<br/>");

}

 square(5,8);

 square(6,9);

**return function**

function square(num1,num2)

{

    var result=num1\*num2;

    return result;

}

 var x=square(7,9);

 document.write(x);

**add, sub function**

function addition(num1,num2)

{

    var result=num1+num2;

    return result;

}

 var x=addition(7,9);

 document.write(x+"<br/>");

 function sub(num1,num2)

 {

     var result=num1-num2;

     return result;

 }

  var x=sub(7,9);

  document.write(x);

**getElementById**

**<h1 id="dom1">hi</h1>**

**<h1 id="dom1">hello</h1>**

**document.getElementById("dom1").innerHTML="My new page";**

**document.getElementById("P1").innerHTML="HI";**

**document.getElementById("go").innerHTML="HELLO";**

**getElementByTagName:**

**<h1>hi</h1>**

**<h1>hello</h1>**

**document.getElementsByTagName("h1")[0].innerHTML="Beautiful";**

**document.getElementsByTagName("h1")[1].innerHTML="Girl";**

**getElementByClassName:**

**<h1 class="para1">hi</h1>**

**<h1 class="para1">hello</h1>**

**document.getElementsByclassName("para1")[0].innerHTML="DON'T BELIEVE";**

**document.getElementsByclassName("para1")[1].innerHTML="ANYONE";**

query selector

**id**

**<h1 id="pid">hi</h1>**

**<h1 id="Qid">hello</h1>**

**document.querySelector("#pid").innerHTML="HELLO EVERYONE";**

**document.querySelector("#Qid").innerHTML="HOW ARE YOU!";**

**CLASS**

**<h1 class="pid">hi</h1>**

**<h1 class="Qid">hello</h1>**

**document.querySelector(".pid").innerHTML="HELLO EVERYONE";**

**document.querySelector(".Qid").innerHTML="HOW ARE YOU!";**

**TAGNAME**

**<h1 >hi</h1>**

**<h2 >hello</h2>**

**document.querySelector("h1").innerHTML="HELLO EVERYONE";**

**document.querySelector("h2").innerHTML="HOW ARE YOU!";**

**EXAMPLE:**

**document.querySelector("h1").innerHTML="MY PAGE";**

**document.querySelector("h2").innerHTML="JavaSCRIPT";**

**document.querySelectorAll("p")[0].innerHTML="HI";**

**document.querySelectorAll("p")[1].innerHTML="MY";**

**document.querySelector("a").innerHTML="Journey";**

**document.querySelector("h4").innerHTML="I am happy";**

**document.querySelector(".my-div").innerHTML="Beauty";**

**document.querySelector("il").innerHTML="life";**

**Onclick**

**<body>**

**<button onclick="myMessage()">click me</button>**

**<script >**

**function myMessage(){**

**alert("Hello everyone");**

**}**

**</script>**

**Example:**

**<body>**

**<button onclick="myMessage1()">click me</button>**

**<button onclick="myMessage2()">click me</button>**

**<p onclick="myMessage3()">demo</p>**

**<script src="dom.js"></script>**

**</body>**

**function myMessage1(){**

**alert("button one");**

**}**

**function myMessage2(){**

**alert("button two");**

**}**

**function myMessage3(){**

**alert("My paragraph");**

**}**

**QuerySelector in button:**

**<body>**

**<button onclick="myMessage1()">click me</button>**

**<button onclick="myMessage2()">click me</button>**

**<p id="p1">demo</p>**

**<script src="dom.js"></script>**

**</body>**

**function myMessage1(){**

**document.querySelector("#p1").innerHTML="button one";**

**}**

**function myMessage2(){**

**document.querySelector("#p1").innerHTML="button two";**

**}**

**Onclick picture**

**<body>**

**<button onclick="myPicture1()">myPicture1</button>**

**<button onclick="myPicture2()">myPicture2</button>**

**<button onclick="myPicture3()">myPicture3</button>**

**<p></p>**

**<img id="img1" src="#" alt="" height="400" width="400">**

**<script src="dom.js"></script>**

**</body>**

**var myVar = document.querySelector("#img1");**

**function myPicture1(){**

**myVar.src="image/1.jpg";**

**}**

**function myPicture2(){**

**myVar.src="image/2.jpg";**

**}**

**function myPicture3(){**

**myVar.src="image/3.jpg";**

**}**

**Dom=document object model**