Data Type

Java Number

var x;

x = 3.141;

x = 34;

x = 123e5; // 123 \* 10 \*\* 5

x = 123e-5; // 123 \* 10 \*\* -5

// Numbers takes 64 bits

// + can be used for both addition and conatenation

"34" + "45" // will be string

34 + "45" // will be string

"34" + 45 // will be string

"The result is " + 34 + 45

34 + 45 + "is the result"

34 + 45 + "13"

//Numeric Strings

"25"-"5"

"25"/"5" // result 10

"25"\*"5"

"25"%"5"

"25"+"5" //exception

//Infinity

var num = Infinity;

25/0 // will get Infinity

//Hexa Decimal Numbers

var x = 0xBB

x.toString() // Returns number as string

x.toString(16);

var x = 3.1416;

x.toPrecision();

x.toPrecision(2);

x.toPrecision(4);

x.toPrecision(6);

var x = "123"

parseInt(x);

x = "123.45"

parseFloat(x);

isNaN(x);

//Links

//https://www.w3schools.com/jsref/jsref\_obj\_number.asp

//https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Number

String

"Hello World"

'Hello World'

Using /”- "Hello “ World"

"Hello World"

"Hello n World"

'Hello ' World'

'Hello t World'

//Concatenation

"Hello" + "World"

var x = "Hello World";

//Length of String

x.length; //It is a property

//Indexing

"Hello World"[0]

"Hello World"[3]

x = "Hello World";

x[0]

x[3]

//Immutable

x[1]

x[1] = "5"

x[1]

// return a new string, doesn't change x

//These are methods

x.slice(1, 5);

x.slice(-6, -1);

x.substr(3, 2); // 2nd parameter means the length

x.replace("Hello", "World");

x.toUpperCase();

x.toLowerCase();

x.concat("1", "2");

x.trim();// avoid space

//links

//https://www.w3schools.com/jsref/jsref\_obj\_string.asp

//https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/String

Boolean

10>9

-1>2

"Hello" == "Hello"

var x = "Hello";

var y = Boolean(x);

x = null

y = Boolean(x);

x = 10 / "H";

Boolean(x);

var myVar;

Boolean(x);

//links

//https://www.w3schools.com/jsref/jsref\_obj\_boolean.asp

Array

//Collection of items

countries = ["Bangladesh", "USA", "UK"]

countries[0]

countries[1]

country = countries[0]

country

//Mutable

countries[0] = "Poland"

countries

countries.length;

countries[countries.length] = "Norway"

//Push and Pop

countries.push("China"); // return length

countries.pop() // returns length

countries.push("Japan", "Srilanka");

countries.shift() //returns the shifted

countries.unshift("Germany") // returns length

//Empty array

var numbers;

numbers = []

numbers.push(1)

numbers.push(78)

numbers.push("One")

x = "Bangladesh"

var y = x.split("")

x = "Bangladesh is a country"

y = x.split("")

y = x.split("n")

z = x.split(" ")

x = "Bangladesh, China, Finland"

y = x.split(",")

z.toString()

z.join("/")

x.concat(z, y);

countries.sort()

countries.reverse()

//Links

//https://www.w3schools.com/jsref/jsref\_obj\_array.asp

Object

student = {name:"Rahim", age:25, hometown:"Dhaka"}

student["name"]

student.name

student = {}

student["name"] = "Rahim"

delete simanta.name