**Variables**

// console log must be after the variable otherwise it'll not work

// console.log(club)       //to print the declained vaeiable you've to write like this

// console.log("club")  //to print a string data write like this

var club = "barca";

var isBarcaWin = true;

let price1 = "10";

let price2 = 20;

let totalPrice = price1 + price2;

console.log(totalPrice);

**array-index**

let numbers = [2, 3, 1, 0, 10, 9];

// change/update value of an element in a Array

numbers[3] = 23;

// get a element of an arroy with by declaring a variable

let we = numbers[4];

console.log(we);

// get an element of an array with console log

console.log(numbers[2]);

// find the index of a element in an array by declaring a variable

let where = numbers.indexOf(10);

console.log(where);

// find the index of an element in an array with console log

console.log(numbers.indexOf(9));

// find the length of an array  by declaring a variable

let totalNumbers = numbers.length;

console.log(totalNumbers);

// find the length of an array with console log

console.log("the length of this array is", numbers.length);

// or,

console.log("the length of this array is", totalNumbers);

let marksClassNine = [92, 75, 89, 56, 45, "absent", null];

console.log(marksClassNine);

//if you try to access or print a value which is not exist in the array then it'll show undefined.

// console.log(marksClassNine[7]);

// again if you try to find the index of an element which doesn't exist in the array then it'll show -1 as the index of that non existant value/data

console.log(marksClassNine.indexOf(100));

// add a new vallue in the array

marksClassNine[7] = 98;

console.log(marksClassNine[7]);

console.log(marksClassNine);

// what if i add a new value by skipping 1  value

// marksClassNine[9] = 99;

// console.log(marksClassNine);

// what if i add a new value by skipping 2 or more value

marksClassNine[10] = 99;

console.log(marksClassNine);

**loop**

// while loops---

/\*

1. Loop variable

2. condition inside while

3. Loop body

4. Change the loop variable

\*/

// var mangoPrice = 0;

// var myMoney = 10;

// while (mangoPrice < myMoney) {

//   console.log("Give me mango", myMoney);

//   myMoney--;

// }

// var mangoPrice = 0;

// var myMoney = 10;

// while (mangoPrice < myMoney) {

//   console.log("Give me mango", mangoPrice);

//   mangoPrice++;

// }

// var mangoPrice = 0;

// var myMoney = 10;

// while (mangoPrice < myMoney) {

//   console.log("Give me mango");

//   console.log(mangoPrice);

//   mangoPrice++;

// }

// For loops---

// for (/\* declare the variable \*/=/\* intialize/value \*/;/\*Condition\*/;/\*final expression(increase or decrease the value)\*/){

//     /\*body\*/

// }

// for (var mangoPrice = 0; mangoPrice < 10; mangoPrice++) {

//   console.log("Gimmee mangooees!!!");

// }

// declare multiple variables in for loops

// for (var mangoPrice = 0, myMoney = 2; mangoPrice < myMoney; mangoPrice++) {

//   console.log("Gimmee mangooees!!!");

// }

**Array-loop**

// var marks = [45, 87, 90, 89, 57, 39];

// for (i = 0; i < 6; i++) {

//   console.log(marks[i]);

// }

// var marks = [45, 87, 90, 89, 57, 39];

// for (i = 0; i < 6; i++) {

//   var mark = marks[i];

//   console.log(mark);

// }

// var marks = [45, 87, 90, 89, 57, 39, 99, 54, 23];

// for (i = 0; i < marks.length; i++) {

//   var mark = marks[i];

//   console.log(mark);

// }

**Comparison**

// compare numbers with console log

// 10 is grater than 5

// console.log(10 > 5);

// // 10 is less than 5

// console.log(10 < 5);

// // 10 is equals to  5

// console.log(10 == 5);

// // 10 is not equals to  5

// console.log(10 != 5);

// // 10 is equals to  10

// console.log(10 == 10);

// // 10 is not equals to  10

// console.log(10 != 10);

// less than or equals to

console.log(5 <= 10);

console.log(10 <= 10);

console.log(15 <= 10);

// compare variables

var me = 99;

var elonMusk = 95;

// me is grater than elonMusk

console.log(me > elonMusk);

// me is less than elonMusk

console.log(me < elonMusk);

**conditionals**

var iphone = 95000;

var myBudget = 10000;

if (iphone < myBudget) {

  console.log("I can buy Iphone");

}

// this

// if (iphone > myBudget) {

//   console.log("I can't buy Iphone");

// }

// or,

else {

  console.log("I can't buy Iphone");

}

var isTall = true;

var isRich = false;

var isHandsome = true;

var isCaring = true;

var isRomantic = true;

var netWorth = 100000;

var need = 10000;

// if (isTall == true) {

//   console.log("Army selection done");

// } else {

//   console.log("dure jaiya mor");

// }

// if (

//   isTall == true &&

//   isHandsome == true &&

//   isCaring == true &&

//   isRomantic == true &&

//   // isRich!=true

//   isRich == false &&

//   //   isRich == true

//   netWorth >= need

// ) {

//   console.log("You're Perfect");

// } else {

//   console.log("You're not perfect");

// }

// if (

//   isCaring == true ||

//   isHandsome == true ||

//   isRich == true ||

//   isRomantic == true

// ) {

//   console.log("Your future is bright");

// } else {

//   console.log("Your future is not bright it's dark");

// }

if (

  (isHandsome == true && isCaring == true && isRomantic == true) ||

  isRich == true

) {

  console.log("Your future is bright");

} else {

  console.log("Your future is not bright it's dark");

}

**even-odd**

// var num = 0;

// while (num <= 10) {

//   console.log(num);

//   num += 2;

// }

var num = 1;

while (num <= 10) {

  console.log(num);

  num += 2;

}

**push-pop**

// as we've seen we can add a new value in a array with just using the name of the array but here we can do the same wit push as well but with only push we can add a new value at the end

var marks = [84, 99, 39, 33, 92];

marks.push(95);

// console.log(marks);

// add a new value with push at the beginning of the array

// marks.unshift("45");

// console.log(marks);

// pop or remove th last element from the array

marks.pop();

// console.log(marks);

// remove the value at the beginning of the array  with push

marks.shift();

console.log(marks);

**break-continue**

// for (var i = 0; i < 10; i++) {

//   console.log(i);

//   if (i > 5) {

//     break;

//   }

// }

for (var i = 0; i < 10; i++) {

  if (i == 5) {

    break;

  }

  console.log(i);

}

// break with string-array

var fruits = ["mango", "banana", "lichi", "apple", "orange"];

for (i = 0; i < fruits.length; i++) {

  console.log(fruits[i]);

  if (i == 2) {

    break;

  }

}

// break with while loop

// continue

// continue with while loop

// continue with string array