/\*

var name = 'mohan';

console.log(name);

var lastName ='kumar';

console.log(lastName);

var age = 26;

console.log(age);

var fullAge = true;

console.log(fullAge);

var name = 'mohan';

var age = 28;

console.log(name + age);

console.log(age + age);

var job,isMarried;

job = 'teacher';

isMarried = false;

console.log(name + 'is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.');

age = 'thirty six';

job = 'driver';

console.log(name + 'is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.');

/\*var lastName = prompt('What is the Last Name?');

console.log(lastName);

alert(name + 'is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.')

var name = 'Mohan';

var age = 28;

console.log(name + age);

console.log(age + age);

var job, isMarried;

job = 'Professor';

isMarried = false;

console.log(name + ' is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.');

age = 'thirty six';

job = 'Principal';

console.log(name + ' is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.');

var lastName = prompt('What is the Last Name?');

console.log(lastName);

alert(name + ' is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.');

var birthYear = 1991;

console.log(birthYear);

birthYear = 1991 - 28\*2;

console.log(birthYear);

var now = 2016;

birthYear = now - 26\*2;

console.log(birthYear);

var ageJohn = 3;

var ageMark = 30;

ageJohn = ageMark = 35;

console.log(ageJohn);

if(23 === '23'){

console.log('hello');

}

var job = 'teacher';

switch(job){

case 'teacher':

console.log('teaches');

break;

case 'driver':

console.log('teaches');

break;

default:

console.log('Invalid');

}

}\*/

//Variable Mutation and Coercion

/\*var name = 'mohan';

console.log(name);

var age = 26;

console.log(age);

console.log(name + age);//Type Coercion

console.log(age + age);

var job = 'teacher';

isMarried = false;

console.log(name + 'is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.');

age = 'thirty six';//Variable Mutation

job = 'principal';

console.log(name + 'is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.');\*/

//Operator Precedence

/\*var birthYear = 1991;

console.log(birthYear);

birthYear = 1991 - 28\*2;

console.log(birthYear);

var now = 2016;

birthYear = now - 26\*2;

console.log(birthYear);

//Assignment

var ageJohn = 3;

var ageMark = 30;

ageJohn = ageMark = 35;

console.log(ageJohn);\*/

//Prompt

/\*var lastName = prompt('What is the Last Name?');

console.log(lastName);

//Alert

alert(name + 'is a ' + age + 'years old ' + job + '.is Married?' + isMarried + '.')\*/

//Conditional Statements

/\*var name = 'John';

var age = 26;

var isMarried = 'no';

if(isMarried === 'Yes')

console.log(name + 'isMarried');

else

console.log(name + 'Will hopefully marry soon');\*/

/\*isMarried = false;

if(isMarried)

console.log('hi');

else

console.log('hello');\*/

//Differences b/w == and ===

/\*if(23 === '23') //Doesnot Supports Type Coercion

console.log('hello');

else

console.log('hi');\*/

//Switch Statement

/\*var job;

job = prompt('What does John do?')

switch(job){

case 'teacher':

console.log('teaches');

break;

case 'driver':

console.log('drives');

break;

default:

console.log('Invalid');

}\*/

//Functions

/\*function calculateAge(yearofbirth)

{

var age = 2016 - yearofbirth

return age;

}

//var ageJohn = calculateAge(1990);

//console.log(ageJohn);

function yearUntilRetirement(name, yearofbirth)

{

var age = calculateAge(yearofbirth);

var retirement = 65 - age;

console.log(retirement);

}

yearUntilRetirement('John',1990)\*/

//Arrays

var names = ['John', 'Jane', 'Mark'];

console.log(names.toString());//converts an array to a string of array values

console.log(names.join("\*"));//joins array elements into a string

delete names[0];//delete wrt index position

console.log(names);

names.unshift('kumar');

console.log(names);

names.splice(2, 0, "ram", "lakshman");

console.log(names);

names.splice(0, 1); //delete element without leaving holes

console.log(names);

names.splice(0, 2);

console.log(names);

names.unshift('kumar');

console.log(names);

names.splice(2, 0, "ram", "lakshman");

console.log(names);

names.splice(1, 2);

console.log(names);

var years = new Array(1990, 1968, 1948);

var mine = names.concat(years);//used for concatenation of arrays

console.log(mine);

//Merging 3 arrays

var arr1 = ["rohan", "syam"];

var arr2 = ["kumar", "mohan", "kiran"];

var arr3 = [1991, 1992];

var myChildren = arr1.concat(arr2, arr3);

console.log(myChildren);

//Merging an array with values

var arr1 = ["kishan", "mohan"];

var col = arr1.concat(["cit", "gubbi", "tumkur"]);

console.log(col);

//Slicing an Array

var fruits = ["Banana", "Orange", "Lemon", "Apple", "Mango"];

var citrus = fruits.slice(2);

var citrus1 = fruits.slice(1, 3);

console.log(citrus);

console.log(citrus1);

/\*//Automatic toString()

console.log(fruits.toString());

console.log(fruits);\*/

/\*var years = new Array(1990, 1968, 1948);

console.log(names);

console.log(years);

var john = ['john', 'smith', 1990, 'teacher', false];

console.log(john);

console.log(john[1]);

john[1] = 'mohan';

console.log(john);

john.push('blue');//Last Position

console.log(john);

john.unshift('kumar');//First Position

console.log(john);

john.pop();//Delete Last Element

console.log(john);

john.shift();//Delete First Element

console.log(john);

alert(john.indexOf('mohan'));//Displays Index Positon

//john[3]='kiran';

//console.log(john);\*/

//Objects

/\*var person = {

name: 'john',

lastName: 'Smith',

yearBirth:1990,

job: 'teacher',

isMarried: false

};

console.log(person.name);

console.log(person['lastName']);

var xyz = 'job';

console.log(person[xyz]);

person.lastName = 'mohan';

person['job'] = 'Programmer';

console.log(person)\*/

/\*

//Another way of creating object

var pp = new Object();

pp.name = 'jane';

pp.lastName = 'smith';

pp['year'] = 1969;

pp['job'] = 'retired';

pp['isMarried'] = true;

console.log(pp);

/\*var person = {

name: 'john',

lastName: 'Smith',

yearBirt:1990,

job: 'teacher',

isMarried: false,

family: ['mohan','kumar'],

calculateAge: function(year){

return 2020 - year;

}

};

console.log(person);

console.log(person.family);

console.log(person.family[1]);

console.log(person.calculateAge(1990));

//Usage of this

var person = {

name: 'john',

lastName: 'Smith',

year: 1990,

job: 'teacher',

isMarried: false,

family: ['mohan','kumar'],

calculateAge: function(){

return 2020 - this.year;

}

};

console.log(person.calculateAge());

\*/

//Soln2

/\*var years = [2001, 1985, 1994, 2014, 1973];

var ages = [];

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

ages[i]=2020-years[i]

}

console.log(ages);

for(i=0;i<ages.length;i++)

{

if(ages[i]>=18)

console.log('person is'+ages[i]+'years old, and is of full age');

else

console.log('person is'+ages[i]+'years old, and is not of full age');

}\*/

function printFullAge(years){

var ages = [];

var fullAges = [];

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

ages[i]=2020-years[i]

}

console.log(ages);

for(i=0;i<ages.length;i++)

{

if(ages[i]>=18)

{

console.log('person is'+ages[i]+'years old, and is of full age');

fullAges.push(true);

}

else

{

console.log('person is'+ages[i]+'years old, and is not of full age');

fullAges.push(false);

}

}

return fullAges;

}

var years = [2001, 1985, 1994, 2014, 1973];

var full\_1 = printFullAge(years);

var full\_2 = printFullAge([2012, 1915, 2020]);