/\*// declaring data types

var someName="Jack";

var someAddress="bangalore, karnataka, 600661";

var someBigParagraph="kjhkkjnljnjn.jb.jb.bbbbkjbbbbhcgchgcgcgc,gc"+"fcvvkhvkjsiudhsadkjbcisFCHDSBCSvdssaoidhocdaho"+"agliugiugiuagigigi";

var myMessage="letsgoabroad";

var myEmail="letsgoabroad@codmer.com";

//declaring numbers.

var grade=8;

var mobileNumber=8978787829;

var decimal=4646464.89787;

var paid=true;

var canAccess=false;

alert(myMessage)

alert(myEmail)

alert(someName)

alert(someAddress)

alert(someBigParagraph)

alert(grade)

alert(mobileNumber)

alert(decimal)

alert(paid)

alert(canAccess)

//Objects

var barrower={

"barrowerName":"Karthik",

"mobileNumber":8978787829,

"amountBarrowed":50000.00

}

alert(barrower.barrowerName);

var ondemand=barrower.amountBarrowed+555;

alert(ondemand);

//Arrays:

var barrowers=["Karthik","Kiran","jack","aplha"]

var user=barrowers[0]

alert(user);

var user=barrowers[2]// it got reassigned.

var size=barrowers.length

alert(user);

alert(size);

var barrowers=[{

"barrowerName":"Karthik",

"mobileNumber":8978787829,

"amountBarrowed":50000.00

},

{

"barrowerName":"Kiran",

"mobileNumber":897878987829,

"amountBarrowed":80000.00

},

{

"barrowerName":"jack",

"mobileNumber":897876363687829,

"amountBarrowed":100000.00

}]

var user=barrowers[1].barrowerName

alert(user);

var user=barrowers[2]

var user1=user.barrowerName

alert(user1);

//Operators

//Arthematic operators

Var a=10

Var b=5

Var c=3

Alert(a+b)//15

Alert(a-b)//5

Alert(a\*c)//30

Alert(a/b)//2

Alert(a%c)//1

A\*b\*c=150

A\*b+c=53//BODMAS

A\*(b+c)=80

(A\*(b+c))=80//order inner first

//assignment operators

Var a=10

Var b=5

Var c=3

A=b a=5// left to right assignment.

A+=b a=a+b a=15

a-=b

a\*=b

a/=b

a%=b

comparision operators

==

==== //value and type

!=

>

<

>=

<=

Type0f operators

Var a=10

Alert(typeof(a))//number

Var arr=[“ajay”,”jack”,”bhai”]

Var obj={ “name”:”ajay”,

“gender:”male”}

Alert(typeof(arr))// object

Alert(typeof(obj))// object

Alert(Array.isArray(arr))//true

//retrieving array.

var barrowers=["Karthik","Kiran","jack","aplha"]

var user=barrowers[0]

alert(user);

var user=barrowers[2]// it got reassigned.

var size=barrowers.length

alert(user);

alert(size);

//condition operators

var numberOfBarrows=window.prompt('Please enter number of loans took')

if(numberOfBarrows>3)

{

alert('you are eligible for less intrest loans')

}

else{

alert('you are not eligible')

}

var numberOfBarrows=window.prompt('Please enter number of loans took')

if(numberOfBarrows>3)

{

alert('you are eligible for less intrest loans')

}

else if(numberOfBarrows==3) {

alert('You are one step away to eligle for less intrest loan')

}

else{

alert('You are not eligible')

}

var numberOfMarksOptained=window.prompt('Please enter number of marks scored')

var grade=false

if(numberOfMarksOptained==undefined||numberOfMarksOptained==null||numberOfMarksOptained==' ')

{

alert('Invalid input please enter valid score')

}

else if(numberOfMarksOptained<=0||numberOfMarksOptained>100) {

alert('Please enter the marks in range of 0 to 100')

}

else{

var totalmarks=100

var percentageOfMarks=(numberOfMarksOptained/totalmarks)\*100

if(percentageOfMarks>90)

{

grade=true

}

alert(grade)

}

//Turnery operator

var numberOfMarksOptained=window.prompt('Please enter number of marks scored')

var grade=false

if(numberOfMarksOptained==undefined||numberOfMarksOptained==null||numberOfMarksOptained==' ')

{

alert('Invalid input please enter valid score')

}

else if(numberOfMarksOptained<=0||numberOfMarksOptained>100) {

alert('Please enter the marks in range of 0 to 100')

}

else{

var totalmarks=100

var percentageOfMarks=(numberOfMarksOptained/totalmarks)\*100

grade =(percentageOfMarks>90)?true:false

alert(grade)

}

//Switch operators

var Marks=window.prompt('Enter the marks cored')

var totalMarks=100

var percentageOfMarks=(Marks/totalMarks)\*100

alert(percentageOfMarks)

var result

switch(percentageOfMarks){

case 90:

result='you have scored 1st class'+' : '+percentageOfMarks

break

case 80 :

result='you have scored 2nd class'+' : '+percentageOfMarks

break

case 70:

alert('you have scored 2nd class'+' : '+percentageOfMarks)

break

default:

result='You are not qualified please re appear again'+' : '+percentageOfMarks

}

alert(result)

var Marks=window.prompt('Enter the marks cored')

var totalMarks=100

var percentageOfMarks=(Marks/totalMarks)\*100

alert(percentageOfMarks)

switch(percentageOfMarks){

case 90:

alert('you have scored 1st class'+' : '+percentageOfMarks)

break

case 80 :

alert('you have scored 2nd class'+' : '+percentageOfMarks)

break

case 70:

alert('you have scored 2nd class'+' : '+percentageOfMarks)

break

default:

alert('You are not qualified please re appear again'+' : '+percentageOfMarks)

}

//Loops;

var vegtables=['carrot','tomato','pees']

for(i=0;i<vegtables.length;)

{

alert(vegtables[i])

i+=1

}

// while

var i=5

while(i>0)

{

alert(i)

i-=1

}

//Braek a loop

var barrowerToFind=window.prompt('Enetr the name to barrower name to find')

var barrowerList=['Ajay','Ram','Kiran']

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

{

if(barrowerList[i]==barrowerToFind)

{

alert('Barrower is find at'+(Number(i)+1))

break;

}

else{

alert('not foundin iteration'+(i+=1))

}

}

//for in loop

var barrowerdetails={'Name':'Ajay',

'Amount':50000,

'Mobilenumber':897878}

for(x in barrowerdetails)

{

alert(x)

alert(barrowerdetails[x])

}

var barrowerdetails=[{'Name':'Ajay',

'Amount':50000,

'Mobilenumber':897878},

{'Name':'kiran',

'Amount':30000,

'Mobilenumber':678878},]

for(x in barrowerdetails)

{

alert(x)

alert(barrowerdetails[x].Name)

}

//largest prime factor

var isPrime=function(originalNumber){

var factorsArray=[];

var factorsArrayIndex=0;

for(i=2;i<=originalNumber;i++)

{

if(originalNumber%i==0)

{

originalNumber=originalNumber/i;

factorsArray[factorsArrayIndex]=i;

factorsArrayIndex++;

}

}

return factorsArray;

};

var getLargestPrimeFactor=function(originalNumber){

var resultarray=isPrime(originalNumber);

resultarray.sort(function(a, b){return a - b});

return resultarray[resultarray.length-1];

};

var originalNumber=window.prompt("Enter the originalNumber");

var finalNumber=getLargestPrimeFactor(originalNumber);

alert(finalNumber);

//Functions login example.

var barrowerdetails=[{'Name':'Ajay',

'password':'12345',

'Amount':50000,

'Mobilenumber':897878},

{'Name':'kiran',

'password':'12345',

'Amount':30000,

'Mobilenumber':678878},

{'Name':'chandu',

'password':'12345',

'Amount':50000,

'Mobilenumber':897878},

{'Name':'carthik',

'password':'12345',

'Amount':30000,

'Mobilenumber':678878}

]

var loginUser=function(Ename,Epassword)

{

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

{

var userObject=barrowerdetails[i]

if(userObject.Name==Ename&&userObject.password==Epassword)

{

alert('Successfully loggedin.')

break;

}

else{

alert("unauthoroized user")

break;

}

}

}

var Ename=window.prompt("enter user name")

var Epassword=window.prompt('Enter password')

loginUser(Ename,Epassword);

//other way of login validation

var barrowerdetails=[{'Name':'Ajay',

'password':'12345',

'Amount':50000,

'Mobilenumber':897878},

{'Name':'Kiran',

'password':'12345',

'Amount':30000,

'Mobilenumber':678878},

{'Name':'chandu',

'password':'12345',

'Amount':50000,

'Mobilenumber':897878},

{'Name':'carthik',

'password':'12345',

'Amount':30000,

'Mobilenumber':678878}

]

var loginUser=function(Ename,Epassword,allUsers)

{

var barrowerNameFound=false

var barrowerPasswordFound=false

for(currentUser in allUsers)

{

console.log(currentUser)

if(allUsers[currentUser]['Name']==Ename)

{

if(allUsers[currentUser]['password']==Epassword)

{

barrowerNameFound=true

barrowerPasswordFound=true

break;

}

else

{

barrowerNameFound=true

barrowerPasswordFound=false

break;

}

}

else{

barrowerNameFound=false

barrowerPasswordFound=false

}

}

if(barrowerNameFound==true&&barrowerPasswordFound==true)

{

alert("logged in successfully"+allUsers[currentUser]['Name'])

}

else if(barrowerNameFound==true&&barrowerPasswordFound==false)

{

alert("Please enetr correct password.")

}

else{

alert('Un Authorized userr')

}

}

var Ename=window.prompt("enter user name")

var Epassword=window.prompt('Enter password')

loginUser(Ename,Epassword,barrowerdetails);

//ES6 block scope:

let oldUser=true;

discountPercantage=10;

if(oldUser==true){

discountPercantage=20;

console.log("Old User dicuont :"+discountPercantage);

}

console.log('Normal User dicount :'+discountPercantage);

// const

let oldUser=true;

const discountPercantage=10;

if(oldUser==true){

const discountPercantage=20;

console.log("Old User dicuont :"+discountPercantage);

}

console.log('Normal User dicount :'+discountPercantage);

// Arror functions

Let multiply=(x,y)=>{

Return x\*y;

}

Console.log(multiply(3,2));

// Default parameters

Let multiply=(x,y=6)=>{

Return x\*y;

}

Console.log(multiply(2));

// REST Parameters

let allAddress=[];

let addressAdders=(userId,...addressToStore)=>{

var addressToarray={userId:userId,address:addressToStore};

allAddress.push(addressToarray);

return allAddress;

}

let address1 ={

"firstLine":"5-1A",

"secondLine":"Mupparaju palem",

"state":"AP",

"Pincode":"523270"

}

let address2 ={

"firstLine":"7-1A",

"secondLine":"Kondepi",

"state":"AP",

"Pincode":"5787870"

}

console.log(addressAdders("phani7daddy",address1,address2));

//Another example;

let allPeopleToInvite=[];

let peopleAdders=(...people)=>{

let newPeopleToAdd=people;

allPeopleToInvite=allPeopleToInvite.concat(newPeopleToAdd);

return allPeopleToInvite;

}

peopleAdders("jaya","ravi","kiran");

peopleAdders("sam","ram","nani");

console.log(allPeopleToInvite);

// Spread Parameters

function sum(x,y,z){

console.log(x);

console.log(y);

console.log(z);

return x+y+z;

}

var numbers=[2,3,4];

console.log(sum(...numbers))

//Another example

let a=[1,2,3];

let b=[4,5,6];

let c=[...a,...b];

console.log(c);

//Object literls

let firstName="Naga";

let secondName="Phanindra";

let personname={firstName,secondName};

console.log(personname);

//Other example

let price=4000;

let discount=10;

let priceFinder={price,discount,calculatePrice(){

return price-((price/100)\*discount);

}};

console.log(priceFinder);

console.log(priceFinder.calculatePrice());

// other example

let someKeystoring="some Key";

let someValuestoringing="some value";

let FinlObj={[someKeystoring]:someValuestoringing

};

console.log(FinlObj);

let cityData = {

"Andaman and Nicobar Islands": [

"Port Blair\*"

],

};

let findCityFunction = (stateName)=>{

for(x in cityData){

var y=0

var state=cityData[x];

console.log(state);

var city1= state[y];

console.log(city1);

var letter=city1.slice(0,1);

console.log(letter);

}

};

findCityFunction(cityData);

///

let findCityFunction = (stateName)=>{

var list1=[];

var state= cityData[stateName];

for(var y in state){

var city1= state[y];

var letter=city1.charAt(0);

//var csv = letter.join(",");

list1.push(letter);

}

return list1.toString();

};

console.log(findCityFunction("Manipur"));