var cat = {

name: 'Fluffy',

activities: ['play', 'eat cat food'],

catFriends: [

{

name: 'bar',

activities: ['be grumpy', 'eat bread omblet'],

weight: 8,

furcolor: 'white'

},

{

name: 'foo',

activities: ['sleep', 'pre-sleep naps'],

weight: 3

}

]

}

//Add height and weight to Fluffy

cat.height="30cm"

cat.weight="700gm"

//Fluffy name is spelled wrongly. Update it to Fluffyy

cat.name="fluffyy"

//List all the activities of Fluffyy’s catFriends.

for(var i in cat.catFriends){

console.log(cat.catFriends[i].activities)

}

//Print the catFriends names.

for(var i in cat.catFriends){

console.log(cat.catFriends[i].name)

}

//Print the total weight of catFriends

totalWeight=0

for(var i in cat.catFriends){

weight=cat.catFriends[i].weight

totalWeight=totalWeight+weight

}

console.log(totalWeight)

//Add 2 more activities to bar & foo cats

cat.catFriends[0].activities.push("sleep")

cat.catFriends[0].activities[3]="dance"

cat.catFriends[1].activities[2]="sleep"

cat.catFriends[1].activities[3]="dance"

//Update the fur color of bar

cat.catFriends[1].furcolor="brown"

var myCar = {

make: 'Bugatti',

model: 'Bugatti La Voiture Noire',

year: 2019,

accidents: [

{

date: '3/15/2019',

damage\_points: '5000',

atFaultForAccident: true

},

{

date: '7/4/2022',

damage\_points: '2200',

atFaultForAccident: true

},

{

date: '6/22/2021',

damage\_points: '7900',

atFaultForAccident: true

}

]

}

//Loop over the accidents array. Change atFaultForAccident from true to false.

for(var i in myCar.accidents)

{

myCar.accidents[i].atFaultForAccident=false

}

//Print the dated of my accidents

for(var i in myCar.accidents)

{

console.log(myCar.accidents[i].date)

}

//Parsing an JSON object’s Values:

// Write a function called “printAllValues” which returns an newArray of all the input object’s values.

// Input (Object):

var object = {name: 'RajiniKanth', age: 33, hasPets : false};

// Output:

// [“RajiniKanth”, 33, false]

function printAllValues(obj) {

console.log(Object.values(obj))

}

printAllValues(object)

//Parsing an JSON object’s Keys:

//Write a function called “printAllKeys” which returns an newArray of all the input object’s keys.

//Example Input:

var object={name : 'RajiniKanth', age : 25, hasPets : true}

function printAllKeys(obj) {

console.log(Object.keys(obj));

}

printAllKeys(object)

## Parsing an JSON object and convert it to a list:

Write a function called “convertObjectToList” which converts an object literal into an array of arrays.  
Input (Object):  
var obj = {name: 'ISRO', age: 35, role: 'Scientist'};Output:  
output [ [ 'name', 'ISRO' ], [ 'age', 35 ], [ 'role', 'Scientist' ] ]

function convertListToObject(obj) {

// your code here

var arr = [];

for (var key in obj){

arr.push([key, obj[key]]);

}

return arr;

}

console.log(convertListToObject(obj))

## Parsing a list and transform the first and last elements of it:

Write a function ‘transformFirstAndLast’ that takes in an array, and returns an object with:  
1) the first element of the array as the object’s key, and  
2) the last element of the array as that key’s value.  
Input (Array):  
var array = [“GUVI”, “I”, “am”, “Geek”];  
Output:  
var object = {  
GUVI : “Geek”  
}

var arr = ['GUVI', 'I', 'am', 'Geek'];

function transformFirstAndLast(arr) {

var newObject={}

key=arr[0]

value=arr[arr.length-1]

newObject[key]=value

return newObject;

}

console.log(transformFirstAndLast(arr))

# **Problem 5 ( 7 -9 mins):**

## Parsing a list of lists and convert into a JSON object:

var array = [['make', 'Ford'], ['model', 'Mustang'], ['year', 1964]];

function fromListToObject() {

var object = {}; // out of the loop

for (var i = 0; i < array.length; ++i) { // iterate to last

var newArray = array[i];

object[newArray[0]] = newArray[1];

}

return object; // out of the loop

}

var obj = fromListToObject(array);

console.log(obj);

## Parsing a list of lists and convert into a JSON object:

function transformEmployeeData(arr)

{

var tranformEmployeeList = [];

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

{

let newObject = {};

for (var j= 0; j< arr[i].length; j++)

{

let key = arr[i][0];

let value = arr[i][1];

newObject[key] = value;

}

tranformEmployeeList.push(newObject);

}

return tranformEmployeeList;

}

console.log(transformEmployeeData(array));

## Parsing two JSON objects and Compare:

function assertObjectsEqual(actual, expected, testName){

actualStr = JSON.stringify(actual)

expectedStr = JSON.stringify(expected)

if(actualStr == expectedStr){

return "Passed"

} else{

return "FAILED"

}

}

## Parsing JSON objects and Compare:

I have a mock data of security Questions and Answers. You function should take the object and a pair of strings and should return if the quest is present and if its valid answer

function chksecurityQuestions(securityQuestions,question, answer) {

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

{

for (keys in securityQuestions[i]){

if(keys == "question"){

if(securityQuestions[i].question == question && securityQuestions[i].expectedAnswer == answer){

return true;

}

}

}

}

return false;

}

## Parsing JSON objects and Compare:

Write a function to return the list of characters below 20 age

function returnMinors(arr)

{

var newObj = [];

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

if (arr[i].age < 20){

newObj.push(arr[i]);

}

}

return newObj;

}

console.log(returnMinors(students));