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  
 }  
 ]  
}console.log(cat);

1. Add height and weight to Fluffy

Solution: cat[0].height=”20”;

cat[0].weight=”10”;

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

Solution: cat.name=” Fluffyy”;

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

Solution: console.log(cat.catFriends[0].activities+ " "+cat.catFriends[1].activities);

1. Print the catFriends names.

Solution: console.log(cat.catFriends[0].name+ " "+cat.catFriends[1].name);

1. Print the total weight of catFriends

Solution: console.log(cat.catFriends[0].weight+cat.catFriends[1].weight);

1. Print the total activities of all cats (op:6)

Solution: console.log(cat.activities + cat.catFriends[0].activities + cat.catFriends[1].activities);

1. Add 2 more activities to bar & foo cats

Solution: cat.catFriends[0].activities.push('run','walk');

cat.catFriends[1].activities.push('roll','bite');

1. Update the fur color of bar

Solution:cat.catFriends[0].furcolor=”Black”;

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  
 }  
 ]  
}

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

Solution: for(i=0;i<Object.keys(myCar.accidents).length;i++)

{

myCar.accidents[i].atFaultForAccident='false';

}

console.log(myCar.accidents[1].atFaultForAccident);

2. Print the dated of my accidents

for(i=0;i<Object.keys(myCar.accidents).length;i++)

{

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

}

**Problem 1 (5 mins):**

**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]

Solution: var obj={name:"Rajinikanth",age:33,hasPets:false};

console.log(printAllValues(obj));

function printAllValues(obj){

return [... Object.values(obj)]

# }Problem 2(5 mins) :

## Parsing an JSON object’s Keys:

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

Example Input:  
{name : ‘RajiniKanth’, age : 25, hasPets : true}  
Example Output:  
[‘name’, ‘age’, ‘hasPets’]

Solution: var obj={name:"Rajinikanth",age:33,hasPets:false};

console.log(printAllValues(obj));

function printAllValues(obj){

return [... Object.keys(obj)]

}

# Problem 3( 7–9 mins):

## 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 object = {name: “ISRO”, age: 35, role: “Scientist”};  
Output:  
[[“name”, “ISRO”], [“age”, 35], [“role”, “Scientist”]]

Solution: var obj = ({name: 'ISRO', age: 35, role: 'Scientist'});

console.log(convertListToObject(obj));

function convertListToObject(obj) {

return Object.entries(obj);

}

# Problem 5 ( 7 -9 mins):

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

Write a function “fromListToObject” which takes in an array of arrays, and returns an object with each pair of elements in the array as a key-value pair.  
Input (Array):  
var array = [[“make”, “Ford”], [“model”, “Mustang”], [“year”, 1964]];  
Output:  
var object = {  
make : “Ford”  
model : “Mustang”,  
year : 1964  
}

Solution: var arr = [['make', 'Ford'], ['model', 'Mustang'], ['year', 1964]];

function fromListToObject(arr) {

var newObject = {};

var newarr=[];

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

{

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

{

newarr[arr[i][j]]=[arr[i][j]];

}

newObject.push(arr);

}

console.log(newObject);

}

# Problem 6 (10 mins):

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

Write a function called “transformGeekData” that transforms some set of data from one format to another.

Input (Array):  
var array = [[[“firstName”, “Vasanth”], [“lastName”, “Raja”], [“age”, 24], [“role”, “JSWizard”]], [[“firstName”, “Sri”], [“lastName”, “Devi”], [“age”, 28], [“role”, “Coder”]]];  
Output:  
[  
{firstName: “Vasanth”, lastName: “Raja”, age: 24, role: “JSWizard”},  
{firstName: “Sri”, lastName: “Devi”, age: 28, role: “Coder”}  
]

Solution: var arraysample = [[['firstName', 'Vasanth'], ['lastName', 'Raja'], ['age', 24], ['role', 'JSWizard']], [['firstName', 'Sri'], ['lastName', 'Devi'], ['age', 28], ['role', 'Coder']]];

let finalArray = []

let newArr = {}

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

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

newArr[arraysample[i][j][0]] = arraysample[i][j][1]

}

finalArray.push(newArr)

}

console.log(finalArray)

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

var students = [  
 {  
 name: “Siddharth Abhimanyu”, age: 21}, { name: “Malar”, age: 25},  
 {name: “Maari”,age: 18},{name: “Bhallala Deva”,age: 17},  
 {name: “Baahubali”,age: 16},{name: “AAK chandran”,age: 23}, {name:“Gabbar Singh”,age: 33},{name: “Mogambo”,age: 53},  
 {name: “Munnabhai”,age: 40},{name: “Sher Khan”,age: 20},  
 {name: “Chulbul Pandey”,age: 19},{name: “Anthony”,age: 28},  
 {name: “Devdas”,age: 56}   
 ];function returnMinors(arr)  
{}console.log(returnMinors(students))

var students = [

{

name: 'Siddharth Abhimanyu', age: 21}, { name: 'Malar', age: 25},

{name: 'Maari',age: 18},{name: 'Bhallala Deva',age: 17},

{name: 'Baahubali',age: 16},{name: 'AAK chandran',age: 23}, {name:'Gabbar Singh',age: 33},{name: 'Mogambo',age: 53},

{name: 'Munnabhai',age: 40},{name: 'Sher Khan',age: 20},

{name: 'Chulbul Pandey',age: 19},{name: 'Anthony',age: 28},

{name: 'Devdas',age: 56}

];

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

{

let j=students[i].age<20;

if(j===true)

{

console.log(students[i].name);

}

}