JSON(Objects)

Problem 0: part A

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

cat. Height=3;

cat. Weight=6;

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

cat.name='Fluffyy';

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

console.log(cat.catFriends[0].activities);

console.log(cat.catFriends[1].activities);

4.Print the catFriends names.

console.log(cat.catFriends[0].name);

console.log(cat.catFriends[1].name);

5.Print the total weight of catFriends console.log(cat.catFriends[0].weight + cat.catFriends[1].weight);

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

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

7.Add 2 more activities to bar & foo cats

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

cat.catFriends[1].activities.push("run","play");

8.Update the fur color of bar

cat.catFriends[0].furcolor="black";

problem 0: part B

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.

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

myCar.accidents[i].atFaultForAccident=false;

}

2. Print the dated of my accidents

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

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

}

# ****Problem 1 :****

## **Parsing an JSON object’s Values:**

function printAllValues(obj){

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

}

printAllValues({name:"Ranijikanth",age:33,hasPets:false});

# Problem 2 :

## **Parsing an JSON object’s Keys:**

function printAllValues(obj){

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

}

printAllValues({name:"Ranijikanth",age:33,hasPets:false});

# Problem 3 :

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

function convertListToObject(obj) {

var m= Object.entries(obj)

return m;

}

console.log(convertListToObject({name: "ISRO", age: 35, role: "Scientist"}));

# Problem 4 :

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

function transformFirstAndLast(arr) {

var a={};

a[arr[0]]=arr[3];

return a;

}

console.log(transformFirstAndLast(["GUVI", "I", "am", "geek"]));

# Problem 5 :

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

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

function fromListToObject(arr) {

var obj={};

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

obj[arr[i][0]]=arr[i][1];

}

return obj;

}

console.log(fromListToObject(array));

# Problem 6 :

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

var array=[[["firstName", "Vasanth"], ["lastName", "Raja"], ["age", 24], ["role", "JSWizard"]], [["firstName", "Sri"], ["lastName", "Devi"], ["age", 28], ["role", "Coder"]]];

function transformEmployeeData(arr) {

var a=[];

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

var b={};

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

let key = arr[i][j][0]

let value = arr[i][j][1]

b[key]=value;

}

a.push(b);

}

return a;

}

console.log(transformEmployeeData(array));

# Problem 7 :

## **Parsing two JSON objects and Compare:**

var actual={foo: 5, bar: 6};

var expected={foo: 5, bar: 6};

function assertObjectsEqual(actual, expected){

var a=JSON.stringify(actual);

var b=JSON.stringify(expected);

if(a===b){

console.log("PASSED");

}else{

console.log(`FAILED [my test] Expected {'foo': 6, 'bar': 5} , but got {'foo': 5, 'bar': 6}`);

}

}

assertObjectsEqual(actual,expected);

# Problem 8 :

## **Parsing JSON objects and Compare:**

var securityQuestions = [

{

question: "What was your first pet’s name?",

expectedAnswer: "FlufferNutter"

},

{

question: "What was the model year of your first car?",

expectedAnswer: "1985"

},

{

question: "What city were you born in?",

expectedAnswer: "NYC"

}

]

function chksecurityQuestions(securityQuestions,question,answer) {

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

var x=securityQuestions[i];

if(x.question===question){

if (x.expectedAnswer===answer){

return true;

}else{

return false;

}

}

}

}

//Test case1:

var ques1 = "What was your first pet’s name?";

var ans1 = "FlufferNutter";

var status1 = chksecurityQuestions(securityQuestions, ques1, ans1);

console.log(status1);

//Test case2:

var ques2 = "What was your first pet’s name?";

var ans2 = "DufferNutter";

var status2 = chksecurityQuestions(securityQuestions, ques2, ans2);

console.log(status2);

# Problem 9 :

## **Parsing JSON objects and Compare:**

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){

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

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

console.log(students[i].name)

}

}

}

returnMinors(students);