JSON Task:

Basic task to play with JSON:

1. Add height and weight to Fluffy

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

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

4. Print the catFriends names.

5. Print the total weight of catFriends

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

7. Add 2 more activities to bar & foo cats

8. Update the fur color of bar

Answer:

```
var cat = {
 name: "Fluffyy",
 activities: ["play", "eat cat food"],
 height: 34,
 weight: 6,
 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);
console.log(cat.catFriends[1].weight);
var total = 0;
for(i=0; i<2; i++)
{
        total = cat.catFriends[i].name;
        console.log(total);
```

```
}
cat.catFriends[0].furcolor = "blue";
console.log(cat.catFriends[0].furcolor)
console.log(total);
```

HTML File:
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>inde1</title>
</head>
<body>
        <script src="demo.js"></script>
</body>
</html>
```

Iterating with JSON Object values:

Please update this driving record so that I can feel better about my driving skills.

```
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
}]}
for(i=0; i<3; i++)
{   myCar.accidents[i].atFaultForAccident = false;
    console.log(myCar.accidents[i].atFaultForAccident);}
```

Write a function called "printAllValues" which returns an newArray of all the input object's values

```
var object = {name: "RajiniKanth", age: 33, hasPets : false};
function printAllValues(obj) {
 console.log(Object.values(object));
}
printAllValues();
```

Write a function called "printAllKeys" which returns an newArray of all the input object's keys

```
var object = {name: "RajiniKanth", age: 33, hasPets : false};
function printAllValues(obj) {
 console.log(Object.keys(object));
}
printAllValues();
```

Write a function called "convertObjectToList" which converts an object literal into an array of arrays

```
var obj = {name: 'ISRO', age: 35, role: 'Scientist'};
function convertListToObject(obj) {
var arr = [];
for(var key in obj)
{
    arr.push([key,obj[key]]);
}
return arr;
}
convertListToObject();
```

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

```
function transformFirstAndLast(arr) {
 var newobj = {};
 var arrlen = arr.length;
 newobj[arr[0]] = arr[arrlen-1];
 return newobj;
}
   var arr = ["GUVI", "I", "am", "a geek"];
   var obj = transformFirstAndLast(arr);
   console.log(obj);
```

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

```
function fromListToObject(arr) {
    let newObject = {};
    for(let i in arr){
        newObject[arr[i][0]] = arr[i][1];
    }
    return newObject;
}
var arr = [['make', 'Ford'], ['model', 'Mustang'], ['year', 1964]];
var reuslt = fromListToObject(arr);
console.log(reuslt);
```

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

```
function transformEmployeeData(arr) {
  var tranformEmployeeList = [];
  for(let i=0; i<arr.length; i++)
  {
      tranformEmployeeList[i] = {};
      for(let j=0; j<arr[i].length; j++)
      {  tranformEmployeeList[i][arr[i][j][0]] = arr[i][j][1];
      }}
    return tranformEmployeeList;
}
var array = [[['firstName', 'Vasanth'], ['lastName', 'Raja'], ['age', 24], ['role', 'JSWizard']],
[['firstName', 'Sri'], ['lastName', 'Devi'], ['age', 28], ['role', 'Coder']]];
var reuslt = transformEmployeeData(array);
console.log(reuslt);
```

Parsing two JSON objects and Compare:

```
var expected = {foo: 5, bar: 6};
var actual = {foo: 5, bar: 6}
var testName
assertObjectsEqual(actual,expected, testName)
function assertObjectsEqual(actual, expected, testName){
    parseexp = JSON.stringify(expected);
    parseact = JSON.stringify(actual);
    var result;
```

```javascript
    if(parseexp === parseact)
    {
        result = console.log("2 objects are equal");
    }
    else
    {
     result = console.log("2 objects are not equal")
    }
     return result;
}
```

Parsing JSON objects and Compare:

```javascript
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,ans) {

let answer = false;
    for(let i=0; i<securityQuestions.length; i++)
    {
    if(securityQuestions[i].question === question)
       {
       if(securityQuestions[i].expectedAnswer === ans)
       {
           answer = true;
       }
       }
    }
    return answer;
}
var ques = 'What was your first pet's name?';
var ans = "FlufferNutter";
console.log(chksecurityQuestions(securityQuestions,ques,ans));
var ques1 = 'What was the model year of your first car?';
var ans1 = 1985;
console.log(chksecurityQuestions(securityQuestions,ques1,ans1));
```