1. **How to compare two JSON have the same properties without order?**
   1. **var obj1 = { name: "Person 1", age:5 };**
   2. **var obj2 = { age:5, name: "Person 1" };**

**Solution:**

var obj1 = {"name": "Person 1", "age":5};

var obj2 = {"age":5, name: "Person 1"};

var flag=true;

if(Object.keys(obj1).length==Object.keys(obj2).length){

    for(key in obj1) {

        if(obj1[key] == obj2[key]) {

            continue;

        }

        else {

            flag=false;

            break;

        }

    }

}

else {

    flag=false;

}

console.log("is object equal : "+flag);

**Output:**

is object equal : true

1. **Use the rest countries API url ->** [**https://restcountries.eu/rest/v2/all**](https://restcountries.eu/rest/v2/all) **and display all the country flags in console**

**Solution:**

var request=new XMLHttpRequest();

request.open('GET','https://restcountries.eu/rest/v2/all',true);

request.send();

request.onload=function(){

    var data=JSON.parse(this.response);

    var cname=[];

    var cflag=[];

    console.log(data);

    for(var i=0;i<=250;i++){

        var cname=data[i].name;

        var cflag=data[i].flag;

        console.log(cname+" "+cflag);

    }

}

**Output:**

Afghanistan https://restcountries.eu/data/afg.svg

script.js:33 Åland Islands https://restcountries.eu/data/ala.svg

script.js:33 Albania https://restcountries.eu/data/alb.svg

script.js:33 Algeria https://restcountries.eu/data/dza.svg

script.js:33 American Samoa https://restcountries.eu/data/asm.svg

script.js:33 Andorra https://restcountries.eu/data/and.svg

script.js:33 Angola https://restcountries.eu/data/ago.svg

script.js:33 Anguilla https://restcountries.eu/data/aia.svg

script.js:33 Antarctica https://restcountries.eu/data/ata.svg

script.js:33 Antigua and Barbuda https://restcountries.eu/data/atg.svg

script.js:33 Argentina https://restcountries.eu/data/arg.svg

script.js:33 Armenia <https://restcountries.eu/data/arm.svg>

1. **Use the same rest countries and print all countries name, region, sub region and population**

**Solution:**

var request=new XMLHttpRequest();

request.open('GET','https://restcountries.eu/rest/v2/all',true);

request.send();

request.onload=function(){

    var data=JSON.parse(this.response);

    console.log(data);

    for(var i=0;i<=250;i++){

        var cname=data[i].name;

        var creg=data[i].region;

        var csub=data[i].subregion;

        var cpop=data[i].population;

        console.log(cname+" "+creg+" "+csub+" "+cpop);

    }

}

**Output:**

Afghanistan Asia Southern Asia 27657145

script.js:35 Åland Islands Europe Northern Europe 28875

script.js:35 Albania Europe Southern Europe 2886026

script.js:35 Algeria Africa Northern Africa 40400000

script.js:35 American Samoa Oceania Polynesia 57100

script.js:35 Andorra Europe Southern Europe 78014

script.js:35 Angola Africa Middle Africa 25868000

script.js:35 Anguilla Americas Caribbean 13452

script.js:35 Antarctica Polar 1000

script.js:35 Antigua and Barbuda Americas Caribbean 86295

script.js:35 Argentina Americas South America 43590400

1. **a. Declare four variables without assigning values and print them in console**

**Solution:**

var obj = { myFirstName: "" };

obj.foo = '';

for(key in obj)

    console.log(key + ': ' + obj[key]);

**Output:**

myFirstName:

foo:

**b. How to get value of the variable myvar as output**

var myvar= 1;  
console.log("myvar");

**Solution:**

var myvar=1;

console.log(myvar);

**Output:**

1

* 1. **Declare variables to store your first name, last name, marital status, country and age in multiple lines**

**Solution:**

var material=[

    {Firstname:"john"},

    {Lastname:"Dip"},

    {MaritalStatus:"married"},

    {Country:"india"},

    {age:25}

]

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

    console.log(material[i]);

}

**Output:**

{Firstname: "john"}

Firstname: "john"

[[Prototype]]: Object

{Lastname: "Dip"}

Lastname: "Dip"

[[Prototype]]: Object

{MaritalStatus: "married"}

MaritalStatus: "married"

[[Prototype]]: Object

{Country: "india"}

Country: "india"

[[Prototype]]: Object

{age: 25}

age: 25

[[Prototype]]: Object

* 1. **Declare variables to store your first name, last name, marital status, country and age in a single line**

**Solution:**

var material=[

    {Firstname:"john"},

    {Lastname:"Dip"},

    {MaritalStatus:"married"},

    {Country:"india"},

    {age:25}

]

    console.log(material);

**Output:**

(5) [{…}, {…}, {…}, {…}, {…}]

0: {Firstname: "john"}1: {Lastname: "Dip"}2: {MaritalStatus: "married"}3: {Country: "india"}4: {age: 25}length: 5[[Prototype]]: Array(0)

* 1. **Declare variables and assign string, boolean, undefined and null data types**

**Solution:**

var Name="John";

var isMarried=false;

var workplace=undefined;

var Marks=null;

console.log(typeof(Name));

console.log(typeof(isMarried));

console.log(typeof(workplace));

console.log(typeof(Marks));

**Output:**

string

boolean

undefined

object

* 1. **Convert the string to integer**
* parseInt()
* Number()
* Plus sign(+)

**Solution:**

* parseInt()