***DAY-04***

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" };**

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

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

// using key comparison

let keyObj1 = Object.keys(obj1);

let keyObj2 = Object.keys(obj2);

console.log(keyObj1[0].length == keyObj2[0].length)

// using value comparison

let valueObj1 = Object.values(obj1);

let valueObj2 = Object.values(obj2);

console.log(valueObj1[0]==valueObj2[0])

**Output:**

false

false

**2. 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**

**Output:**

var request = new XMLHttpRequest();

request.open('Get','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json');

request.send();

request.onload = function(){

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

 console.log(data)

 for(let i=0;i<data.length;i++){

    console.log(data[i].flag)

 }

};

**3) Use the same rest countries and print all countries name, region, sub region and population**

**Output:**

var request = new XMLHttpRequest();

request.open('Get','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json');

request.send();

request.onload = function(){

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

 console.log(data)

 for(let i=0;i<data.length;i++){

    console.log(data[i].name + "," +  data[i].region+ "," + data[i].subregion+ "," + data[i].population)

 }

};

4) <https://medium.com/@reach2arunprakash/www-guvi-io-zen-d395deec1373>

**Task 1: Simple Programs todo for variables**

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

let firstname;

  let lastname;

  let age;

  let marital\_status;

  console.log(firstname)

  console.log(lastname)

  console.log(age)

  console.log(marital\_status)

**Output:**

undefined

undefined

undefined

undefined

1. How to get value of the variable myvar as output

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

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

**Output:**

let firstname;

let lastname;

let age;

let marital\_status;

let country;

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

**Output:**

let [firstname,lastname,age,marital\_status,country]

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

let name = "Sugumar";

 let married = false;

 let age;

 let country = null

 console.log(typeof(name))

 console.log(typeof(married))

 console.log(typeof(age))

 console.log(country)

**Output**

string

boolean

undefined

null

6)Convert the string to integer

1)ParseInt()

let string = "Hi I'm Sugumar";

 console.log(typeof(parseInt(string)))

**Output:**

number

2)Number()

let string = "Hi I'm Sugumar";

 console.log(typeof(Number(string)))

**Output:**

number

3) Plus Sign(+)

let string = "Hi I'm Sugumar";

 console.log(typeof(+string))

**Output:**

number

7.Write 6 statement which provide truthy & falsey values.

let age = 24;

console.log(age>24)

console.log(age<24)

console.log(age==24)

console.log(age%2==0)

console.log(age%2!=0)

console.log(age!=24)

**Output:**

false

false

true

true

false

false

# Task 2: Simple Programs todo for Operators

8.Square of a number

let a = 5;

 let square = a\*a

 console.log(square)

**Output:**

25

9.Swapping 2 numbers

let a = 5;

let b = 10;

[a,b] = [b,a]

 console.log(a)

 console.log(b)

**Output:**

10

5

10.Addition of 3 numbers

let a = 5;

let b = 10;

let c = 20;

 console.log(a+b+c)

**Output:**

35