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"};

JSON content=Json.stringify(obj1);

JSON content1=Json.stringify(obj2);

If(JSON content===JSON content1){

console.log(“same”);

}else{

Console.log(“not same”)}

Output;

same

1. Use the rest countries API url -><https://restcountries.eu/rest/v2/all> and display all the country flags in console

Use the rest countries API url -><https://restcountries.eu/rest/v2/all> and display all the country flags in consolevar 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);

   console.log(data[1].currencies)

    for(var i=0;i<data.length;i++){

    console.log(`flag:${data[i].flag}`);}}

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

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);

   console.log(data[1].currencies)

    for(var i=0;i<data.length;i++){

    console.log(`flag:${data[i].flag}`);

 console.log(`country name:${data[i].name} region:${data[i].region} subregion:${data[i].subregion} population:${data[i].population}`)

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

Task 2: Simple Programs todo for Operators

1.Square of a number

// take the input from the user

const number = 4;

const result = Math.sqrt(number);

console.log(result); //2

2.JavaScript program to swap two variables

//take input from the users

let a = prompt('Enter the first variable: ');

let b = prompt('Enter the second variable: ');

//create a temporary variable

let temp;

//swap variables

temp = a;

a = b;

b = temp;

console.log(`The value of a after swapping: ${a}`);

console.log(`The value of b after swapping: ${b}`);

3.Addition of 3 numbers

function sum\_three(nums)

{

return nums[0] + nums[1] + nums[2];

}

console.log(sum\_three([10, 32, 20]));

console.log(sum\_three([5, 7, 9]));

console.log(sum\_three([0, 8, -11]));

3.Celsius to Fahrenheit conversion

function cToF(celsius)

{

const cTemp = celsius;

const cToFahr = cTemp \* 9 / 5 + 32;

const message = `${cTemp}\xB0C is ${cToFahr} \xB0F.`;

console.log(message);

}

4.Meter to miles

function getMiles(i) {

return i\*0.000621371192;

}

function getMeters(i) {

return i\*1609.344;

}

console.log(getmiles(5))

5.Pounds to kg

function getPound(i){

return i\*0.45359237 ;

}console.log(getPound)//2.2679618500000003

6.Calculate Batting Average

function averageRuns(runs, matches, notout)

{

// Calculate number of

// dismissals

let out1;

out1 = matches - notout;

// Check for 0 times out

if (out1 == 0)

return -1;

// Calculate batting average

let avg = parseInt((runs) / out1, 10);

return avg;

}console.log(averageRuns(10000,250,50)) //50

7.Calculate five test scores and print their average

const avg = arr => {

const sum = arr.reduce((acc, cur) => acc + cur);

const average = sum/arr.length;

return average;

}

console.log(avg([1, 2, 3, 7, 8]));

8.Power of any number x ^ y.

var x=2;

var y=3

var p = Math.pow(x, y);

console.log(p);

9.Calculate Simple Interest

var p, t, r, SI;

// p = principal

// t = time

// r = rate

// SI = simple interest

// Calculate simple interest

p = 15;

t = 12;

r = 12;

SI = (p \* t \* r) / 100;

// Output

console.log("Simple Interest = " + SI); //simple Interest 21.6

10.Calculate area of an equilateral triangle

let i,

a= 20.1

area = 1

for(i=1;i<=a;i++)

{

area = (1.73\*a\*a)/4

}

console.log(Math.round(area\*100)/100) //174.73