1. How to compare two JSON have the same properties without order?
   1. var obj1 = { name: "Guvi",class:FS };
   2. var obj2 = { class:FS, name: "Guvi" };

var obj1 = {"name":"GUVI","class":"FS"};

var obj2 = {"class":"FS","name":"GUVI"};

//comparing two objects whose order are not same passing two objects in the argument

function noOrder(obj1, obj2) {

const obj1Keys = Object.keys(obj1);

const obj2Keys = Object.keys(obj2);

if(obj1Keys.length !== obj2Keys.length) {

return false;

}

for (let objKey of obj1Keys) {

if (obj1[objKey] !== obj2[objKey]) {

if(typeof obj1[objKey] == "object" && typeof obj2[objKey] == "object") {

if(!isEqual(obj1[objKey], obj2[objKey])) {

return false;

}

}

else {

return false;

}

}

}

return true;

}

console.log(noOrder(obj1,obj2));

**Output:**

true

1. Use the rest countries API url -><https://restcountries.eu/rest/v2/all> and display all the country flags in console. (Answer files attached)
2. Use the same rest countries and print all countries name, region, sub region and population.

(Answer files attached)

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

1.

**//Square of a number**

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

inp.on("line", (data) => {

userInput.push(data);

});

inp.on("close", () => {

var A = +userInput[0];

var C = A\*A;

console.log(C);

});

* [OUTPUT](https://www.guvi.in/ide#output)

##### Output:

4



//Addition of 3 numbers

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

inp.on("line", (data) => {

userInput.push(data);

});

//Addition of 3 numbers

inp.on("close", () => {

var A = +userInput[0];

var B = +userInput[1];

var C = +userInput[2];

var D = A+B+C;

console.log(D);

});

* [INPUT](https://www.guvi.in/ide#input)

2

4

1

##### Output:

7

3. //The area of the triangle is: A = 1/2 (b × h)

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

inp.on("line", (data) => {

userInput.push(data);

});

//The area of the triangle is: A = 1/2 (b × h)

inp.on("close", () => {

var B = +userInput[0];

var H = +userInput[1];

var Area = (1/2)\*(B\*H);

console.log(Area);

});

Input

2

4

##### Output:

4

4. //Given their radius of a circle and find its diameter, circumference and area.

const readline = require("readline");

const inp = readline.createInterface({

input: process.stdin

});

const userInput = [];

inp.on("line", (data) => {

userInput.push(data);

});

//Given their radius of a circle and find its diameter, circumference and area.

inp.on("close", () => {

var R = +userInput[0];

var D,C,A;

D = 2\*R;

C = (2\*3.14\*R);

A = 3.14\*R\*R;

console.log(D);

console.log(C);

console.log(A);

});

Input

2

##### Output:

4

12.56

12.56

5.

//Calculate area of an equilateral triangle

inp.on("close", () => {

var A = +userInput[0];

var Area = (Math.sqrt(3)/4)\*A\*A;

console.log(Area);

});

Input

2

##### Output:

1.7320508075688772

6.

// Volume Of Sphere V=4/3πr3

inp.on("close", () => {

var R = +userInput[0];

var Volume = (4/3)\*3.14\*R\*R\*R;

console.log(Volume);

});

Input

2

##### Output:

33.49333333333333

7.

// Given two numbers and perform all arithmetic operations.

inp.on("close", () => {

var a = +userInput[0];

var b = +userInput[1];

var Add = a+b;

var Sub = a-b;

var mul = a\*b;

var div = a/b;

console.log(Add);

console.log(Sub);

console.log(mul);

console.log(div);

});

Input

2

4

##### Output:

6

-2

8

0.5