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" };**

Answer:

```
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);
```

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

```
var request = new XMLHttpRequest();
request.open('GET','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json',true);
request.send();
request.onload = function() {
   var data = JSON.parse(request.response);
   console.log(data);
   for(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

```
var request = new XMLHttpRequest();
request.open('GET','https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json',true);
request.send();
request.onload = function() {
   var data = JSON.parse(request.response);
```

```
console.log(data);
for(i=0;i<data.length;i++){
    console.log(data[i].name + "-" +data[i].region + '-' + data[i].subregion + " " + data[i].population);
}
```

Task 1: Simple Programs todo for variables

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

Let a;

const b;

var c;

console.log(a +' '+ b +' '+ c);

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

var myvar= 1;

console.log("myvar");

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

let firstName;

let lastName;

let maritalStatus;

let country;

let age;

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

let firstName,lastName,maritalStatus,country,age;

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

```
let a='name';  //string



let b =  true; //boolean



let c ; //undefined



let d = ""; //null
```

Task 2: Simple Programs todo for Operators

1.Square of a number
Answer : let a = 3;
square = a*a;
2.Swapping 2 numbers

let a = 5, b = 6;
[a, b] = [b, a];

console.log(a);
console.log(b);

3.Addition of 3 numbers

let a =7 , b=4, c=5;
sum = a+b+c;
4.Celsius to Fahrenheit conversion

let c = 5; //temperature in celsius
f = (C * 9/5) + 32 //temperature in fahrenhiet

5.Meter to miles

```
let m = 1000; //metre
var miles = m/1609.344 //miles
```