**1. Generate an API key with given link below https://openweathermap.org/guide Print the current weather data in console- By lat lang**

<http://api.openweathermap.org/data/2.5/weather?lat=27.2046&lon=77.4977&appid=556c649edded81a803d594e6af04f548>.

var a = [{"coord":{"lon":77.4977,"lat":27.2046},"weather":[{"id":801,"main":"Clouds","description":"few clouds","icon":"02n"}],"base":"stations","main":{"temp":299.96,"feels\_like":299.04,"temp\_min":299.96,"temp\_max":299.96,"pressure":1009,"humidity":17,"sea\_level":1009,"grnd\_level":989},"visibility":10000,"wind":{"speed":4.23,"deg":345,"gust":8.74},"clouds":{"all":18},"dt":1619292486,"sys":{"country":"IN","sunrise":1619309777,"sunset":1619356762},"timezone":19800,"id":1276128,"name":"Bharatpur","cod":200}];

a[0].coord.lat = 27 and a[0].coor.lon=77

console.log(a[0].weather);

**1. print odd numbers from an array**

**Anonymous functions :** let arr = [1,2,3,4,5,6,7,8,9,10];

let result = arr.filter(val => val%2!==0);

console.log(result);

**IIFE :** let arr = [1,2,3,4,5,6,7,8,9,10];

function odd(arr){

for(var i in arr){

if(arr[i]%2 !==0){

console.log(arr[i]);

}

}

}

odd(arr);

**2.convert strings to title caps**

**Anonymous functions :** let arr = 'this is my first program'

let result = arr.split(" ");

let final = result.map(function(word) {

return word.charAt(0).toUpperCase()+word.slice(1);

});

console.log(final.toString().split(",").join(" "));

**IIFE :** let arr = 'this is my first program'

let result = arr.split(" ");

for(var i=0;i<result.length;i++)

{

result[i] = result[i][0].toUpperCase()+result[i].substr(1);

}

console.log(result.toString().split(",").join(" "));

**3.sum of all numbers in an array**

**Anonymous function :** let arr = [1,2,3,4,5,6,7,8,9,10]

let sum = arr.reduce(function(accum,curr){

return accum+curr; }

console.log(sum)

**IIFE :** let arr = [1,2,3,4,5,6,7,8,9,10];

function add(array1)

{

var sum = 0;

for(var i in array1)

{

sum+=array1;

}

return sum;

}

let a = add(arr);

console.log(a);

**4.return all prime numbers in an array**

let arr = [1,2,3,4,5,......100]

**Anonymous>>**

let dummy = arr.filter(val =>

{

if(val<2) return false;

if(val===2) return true;

if(val%2 ===0) return false;

for(let fact=3;fact\*fact<=val;fact+2){

if(val%fact ===0) return false;

}

return true

}

console.log(dummy);

**IIFE>>**

for(let i in arr)

{

if((isPrime(arr[i]) === true)

console.log(arr[i]);

}

function isPrime(num)

{

if(num<2) return false;

for(let val=2;val<=Math.sqrt(num);val++)

{

if(num%val === 0) return false;

}

return true;

}