1. Solving problems using array functions on the rest countries' data
2. Get all the countries from the Asia continent /region using the Filter function

var request = new XMLHttpRequest();

request.open("GET","https://restcountries.com/v2/all");

request.send();

request.onload=function(){

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

result.filter((countries) => {

return countries.region ==="Asia";

})

console.log(result);

}

* fetch('https://restcountries.com/v3.1/all')

.then(response => response.json())

.then(data => {

// Use filter function to get countries from Asia

const asiaCountries = data.filter(country => country.region === 'Asia');

// Log the list of Asia countries

console.log(asiaCountries);

})

.catch(error => console.error('Error fetching data:', error));

1. Get all the countries with a population of less than 2 lakhs using Filter function

var request1 = new XMLHttpRequest();

request1.open("GET","https://restcountries.com/v2/all");

request1.send();

request1.onload=function(){

var result1=JSON.parse(request1.response);

const pop = result1.filter((element)=>{

return element.population<200000;

})

console.log(pop);}

* fetch('https://restcountries.com/v3.1/all')

.then(response => response.json())

.then(data => {

// Use filter function to get countries with population less than 200,000

const countriesWithLowPopulation = data.filter(country => country.population < 200000);

// Log the list of countries

console.log(countriesWithLowPopulation);

})

.catch(error => console.error('Error fetching data:', error));

1. Print the following details name, capital, flag using forEach function

var requestt = new XMLHttpRequest();

requestt.open("GET","https://restcountries.com/v2/all");

requestt.send();requestt.onload=function(){

var resultt=JSON.parse(requestt.response);

resultt.forEach(element => {

console.log(element.name);

console.log(element.capital);

console.log(element.flag);

});

* fetch('https://restcountries.com/v3.1/all')

.then(response => response.json())

.then(data => {

// Use forEach function to print details

data.forEach(country => {

console.log(`Name: ${country.name.common}`);

console.log(`Capital: ${country.capital}`);

console.log(`Flag: ${country.flags.svg}`);

console.log('---------------------------');

});

})

.catch(error => console.error('Error fetching data:', error));

}

1. Print the total population of countries using reduce function

var reques = new XMLHttpRequest();

reques.open("GET","https://restcountries.com/v2/all");

reques.send();

reques.onload=function(){

var resul=JSON.parse(reques.response);

var total = resul.reduce((acc,curr) =>{

return acc+curr.population;

} ,0);

console.log(total);

}

* fetch('https://restcountries.com/v3.1/all')

.then(response => response.json())

.then(data => {

// Use reduce function to calculate total population

const totalPopulation = data.reduce((acc, country) => acc + country.population, 0);

// Log the total population

console.log(`Total Population: ${totalPopulation}`);

})

.catch(error => console.error('Error fetching data:', error));

1. Print the country which uses US Dollars as currency

var req = new XMLHttpRequest();

req.open("GET","https://restcountries.com/v2/all");

req.send();

req.onload=function(){

var res=JSON.parse(req.response);

var currency = res.filter((element) => {

for(let key in element.currencies){

if(element.currencies[key].code === "USD"){

return element;

}

}

})

console.log(currency);

}

* fetch('https://restcountries.com/v3.1/all')

.then(response => response.json())

.then(data => {

// Use filter function to get countries using US Dollars

const countriesUsingUSD = data.filter(country => {

return country.currencies && country.currencies.hasOwnProperty('USD');

});

// Log the countries using USD

countriesUsingUSD.forEach(country => {

console.log(`Country: ${country.name.common}`);

});

})

.catch(error => console.error('Error fetching data:', error));