Solving problems using array functions on rest countries data (https://restcountries.com/v3.1/all).

1. Get all the countries from Asia continent /region using Filter function

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

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

4. Print the total population of countries using reduce function

5. Print the country which uses US Dollars as currency.

// Create a new XMLHttpRequest

const xhr = new XMLHttpRequest();

// Define the API URL

const apiUrl = "https://restcountries.com/v3.1/all";

// Open a GET request to the API

xhr.open("GET", apiUrl, true);

// Set up an event listener to handle the response

xhr.onload = function () {

if (xhr.status >= 200 && xhr.status < 300) {

// Parse the JSON response

const data = JSON.parse(xhr.responseText);

//1. Get all countries from Asia continent/region using Filter function

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

console.log("Countries in Asia:");

console.log(asiaCountries);

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

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

console.log("Countries with population less than 2 lakhs:");

console.log(lowPopulationCountries);

// 3. Print name, capital, and flag using forEach function

console.log("Country Details (Name, Capital, Flag):");

data.forEach((country) => {

console.log(`Name: ${country.name.common}, Capital: ${country.capital[0]}, Flag: ${country.flags.png}`);

});

// 4. Print the total population of countries using reduce function

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

console.log("Total Population of Countries: " + totalPopulation);

// 5. Print the country which uses US Dollars as currency

const usDollarCountries = data.filter((country) => country.currencies.USD);

if (usDollarCountries.length > 0) {

console.log("Countries using US Dollars as currency:");

console.log(usDollarCountries);

} else {

console.log("No countries use US Dollars as currency.");

}

} else {

console.error("Error fetching data: " + xhr.status);

}

};

// Send the request

xhr.send();