1. **Solving problems using array functions on rest countries data.**

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

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <script>

        async function fetchdata() {

            try {

                let data = await fetch('https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json');

                let result = await data.json()

                console.log(result)

                let res = result.filter((elements) => elements.region == "Asia")

                console.log(res)

            }

            catch (err) {

                alert(err)

            }

        }

        fetchdata()

    </script>

</body>

</html>

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

<!DOCTYPE html>

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    <meta http-equiv="X-UA-Compatible" content="IE=edge">

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    <title>Document</title>

</head>

<body>

    <script>

        async function fetchdata() {

            try {

                let data = await fetch('https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json');

                let result = await data.json()

                console.log(result)

              let res = result.filter((elements) => elements.population < 200000)

                console.log(res)

            }

            catch (err) {

                alert(err)

            }

        }

        fetchdata()

    </script>

</body>

</html>

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

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    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <script>

        async function fetchdata() {

            try {

                let data = await fetch('https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json');

                let result = await data.json()

                console.log(result)

                result.forEach((element) => {

                    console.log(`Country Name: ${element.name}

                 Capital: ${element.capital}

                Flag: ${element.flag} `)

                })

            }

            catch (err) {

                alert(err)

            }

        }

        fetchdata()

    </script>

</body>

</html>

**d. Print the total population of countries using reduce function**

<!DOCTYPE html>

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<head>

    <meta charset="UTF-8">

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    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <script>

        async function fetchdata() {

            try {

                let data = await fetch('https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json');

                let result = await data.json()

               // console.log(result)

let res1=result.map(ele=>ele.population)  // instead of for loop , we can use  map to iterate , after getting array values then use reduce

console.log(res1)

/\*

                var temp=0;

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

                    temp= temp+ result[i].population

                }

                //let res=result.map(ele=>ele.population)

                console.log(temp) \*/

                let res2=res1.reduce((acc,pre)=> acc+pre)

                console.log(`Total number of Popualtion: ${res2}`)

            }

            catch (err) {

                alert(err)

            }

        }

        fetchdata()

    </script>

</body>

</html>

**e.Print the country which uses US Dollars as currency.**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <script>

        async function fetchdata() {

            try {

                let data = await fetch('https://raw.githubusercontent.com/rvsp/restcountries-json-data/master/res-countries.json');

                let result = await data.json()

                console.log(result)

                //let res=result.map((elements)=>elements.currencies[0].code)

                // here note that currencies in array, so use currencies[0]

                let res = result.filter((elements) => elements.currencies[0].code == "USD")

                console.log(res)

            }

            catch (err) {

                alert(err)

            }

        }

        fetchdata()

    </script>

</body>

</html>