

MERN STACK DEVELOPMENT

MRF – Array Method – Task 8

1. Solving problems using array functions on rest countries data

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

code

```
// Getting all the countries from Asia region using Filter function
```

```
let xhr = new XMLHttpRequest();
```

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

```
xhr.onload = function () {
```

```
  let data = JSON.parse(this.response);
```

```
  // Filtering countries in Asia region
```

```
  let asiaRegion = data
```

```
    .filter((data) => data.region === "Asia")
```

```
    .map((data) => {
```

```
      return data.name;
```

```
    });
```

```
  console.log(asiaRegion);
```

```
};
```

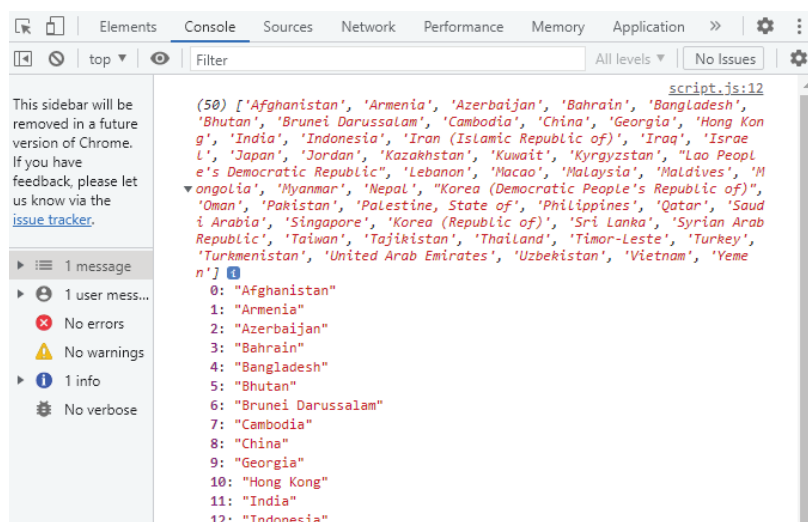
```
xhr.onerror = function () {
```

```
  console.log("Error", this.statusText);
```

```
};
```

```
xhr.send();
```

Output



MERN STACK DEVELOPMENT

MRF – Array Method – Task 8

1. Solving problems using array functions on rest countries data

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

code

```
// Getting all the countries with a population of less than 2 lakhs using Filter function
```

```
let xhr = new XMLHttpRequest();
```

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

```
xhr.onload = function () {
```

```
    let data = JSON.parse(this.response);
```

```
    // Filtering countries by population
```

```
    let population = data
```

```
        .filter((data) => data.population < 200000)
```

```
        .map((data) => {
```

```
            return [data.name, data.population];
```

```
        });
```

```
    console.log(population);
```

```
};
```

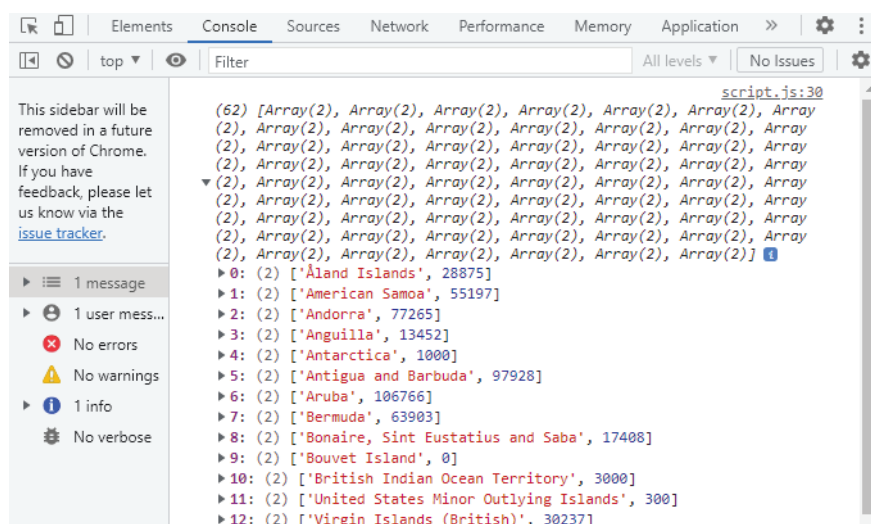
```
xhr.onerror = function () {
```

```
    console.log("Error", this.statusText);
```

```
};
```

```
xhr.send();
```

Output



MERN STACK DEVELOPMENT

MRF – Array Method – Task 8

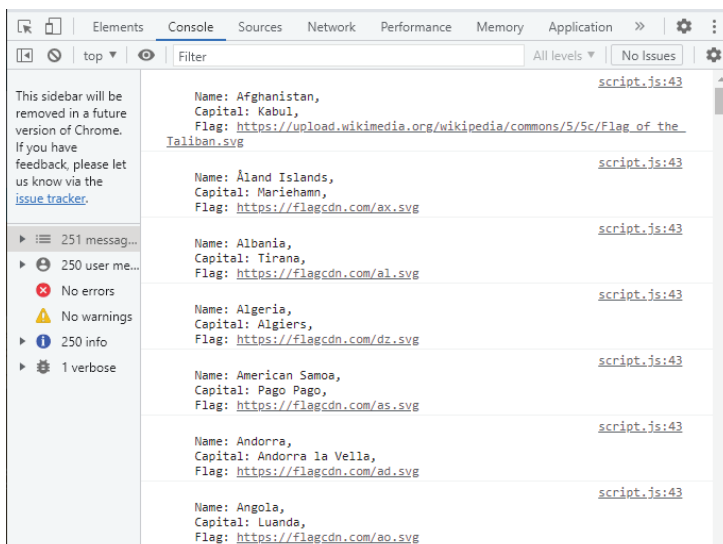
1. Solving problems using array functions on rest countries data

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

code

```
// Print name, capital, flag using forEach function
let xhr = new XMLHttpRequest();
xhr.open("GET", "https://restcountries.com/v2/all");
xhr.onload = function () {
  let data = JSON.parse(this.response);
  data.forEach(function (d) {
    console.log(`
    Name: ${d.name},
    Capital: ${d.capital},
    Flag: ${d.flag}`);
  });
};
xhr.onerror = function () {
  console.log("Error", this.statusText);
};
xhr.send();
```

Output



MERN STACK DEVELOPMENT

MRF – Array Method – Task 8

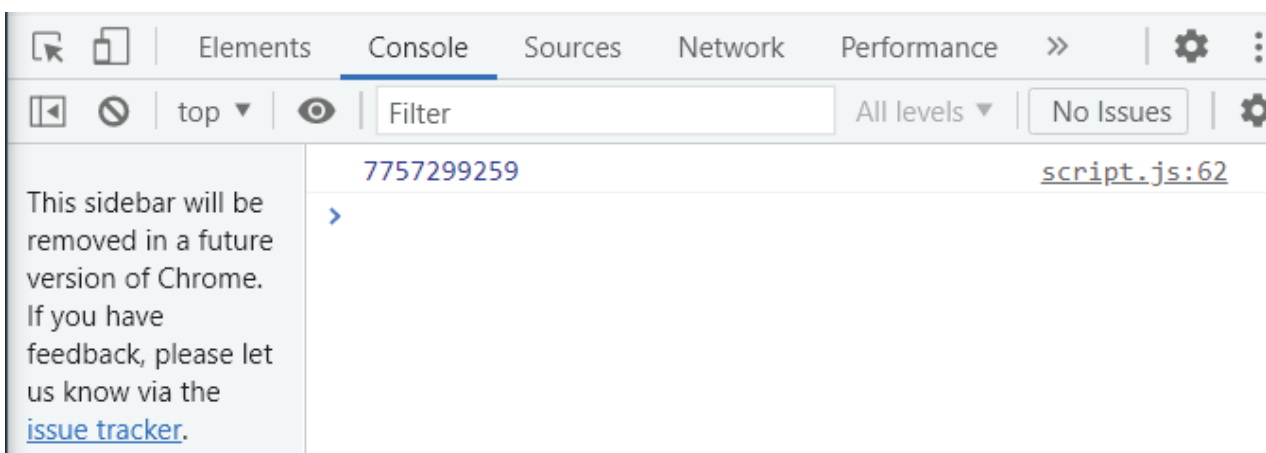
1. Solving problems using array functions on rest countries data

d. Print the total population of countries using reduce function

code

```
// Calculating Total Population
let xhr = new XMLHttpRequest();
xhr.open("GET", "https://restcountries.com/v2/all");
xhr.onload = function () {
  let data = JSON.parse(this.response);
  let population = data.filter((data) => data.population)
    .map((data) => {return data.population})
    .reduce((prev, cur) => prev + cur);
  console.log(population);
};
xhr.onerror = function () {
  console.log("Error", this.statusText);
};
xhr.send();
```

Output



MERN STACK DEVELOPMENT

MRF – Array Method – Task 8

1. Solving problems using array functions on rest countries data

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

code

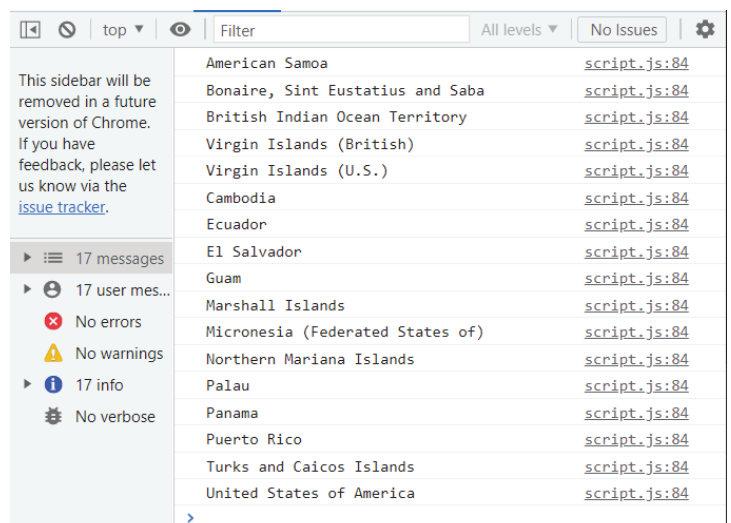
```
// Displaying countries using US Cuurency
```

```
let xhr = new XMLHttpRequest();
xhr.open("GET", "https://restcountries.com/v2/all");
xhr.onload = function () {
  let data = JSON.parse(this.response);

  let currency = data
    .filter((x) => {
      for (let curr in x.currencies) {
        if (x.currencies[curr].code === "USD") {
          return true;
        }
      }
    })
    .map((x) => {
      console.log(x.name);
    });
};
```

```
xhr.onerror = function () {
  console.log("Error", this.statusText);
};
xhr.send();
```

Output



American Samoa	script.js:84
Bonaire, Sint Eustatius and Saba	script.js:84
British Indian Ocean Territory	script.js:84
Virgin Islands (British)	script.js:84
Virgin Islands (U.S.)	script.js:84
Cambodia	script.js:84
Ecuador	script.js:84
El Salvador	script.js:84
Guam	script.js:84
Marshall Islands	script.js:84
Micronesia (Federated States of)	script.js:84
Northern Mariana Islands	script.js:84
Palau	script.js:84
Panama	script.js:84
Puerto Rico	script.js:84
Turks and Caicos Islands	script.js:84
United States of America	script.js:84