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();
```

```
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                                             script.js:12

(50) ['Afghanistan', 'Armenia', 'Azerbaijan', 'Bahrain', 'Bangladesh', 'Bhutan', 'Brunei Darussalam', 'Cambodia', 'China', 'Georgia', 'Hong Kon g', 'India', 'Indonesia', 'Iran (Islamic Republic of)', 'Iraq', 'Israe l', 'Japan', 'Jordan', 'Kazakhstan', 'Kuwait', 'Kyrgyzstan', "Lao Peopl e's Democratic Republic", 'Lebanon', 'Mhacao', 'Mhalaysia', 'Mhalaives', 'M ongolia', 'Myanmar', 'Nepal', "Korea (Democratic People's Republic of)", 'Oman', 'Pakistan', 'Palestine, State of', 'Philippines', 'Qator', 'Soud i Arabia', 'Singapore', 'Korea (Republic of)', 'Sri Lanka', 'Syrian Arab Republic', 'Taiwan', 'Tajikistan', 'Thailand', 'Timor-Leste', 'Turkey', 'Turkmenistan', 'United Arab Emirates', 'Uzbekistan', 'Vietnam', 'Yeme n'] [8]
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                                                   1: "Armenia"
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                                                   6: "Brunei Darussalam"
7: "Cambodia"
      No verbose
                                                    8: "China"
                                                    9: "Georgia
                                                     10: "Hong Kong"
                                                     11: "India"
```

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 popolation
 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();
```

```
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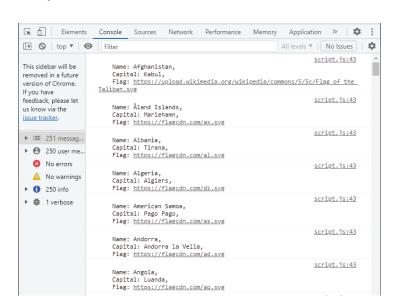
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us know via the
issue tracker.
                                                                                 ▶0: (2) ['Åland Islands', 28875]
 ▶ ≔ 1 message
                                                                                ▶1: (2) ['American Samoa', 55197]
▶2: (2) ['Andorra', 77265]
▶3: (2) ['Anguilla', 13452]
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           No verbose
                                                                                 ▶8: (2) ['Bonaire, Sint Eustatius and Saba', 17408]
                                                                                ▶9: (2) ['Bouvet Island', 0]
▶10: (2) ['British Indian Ocean Territory', 3000]
                                                                                 ▶ 11: (2) ['United States Minor Outlying Islands', 300]
                                                                                 ▶ 12: (2) ['Virgin Islands (British)', 30237]
```

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();
```



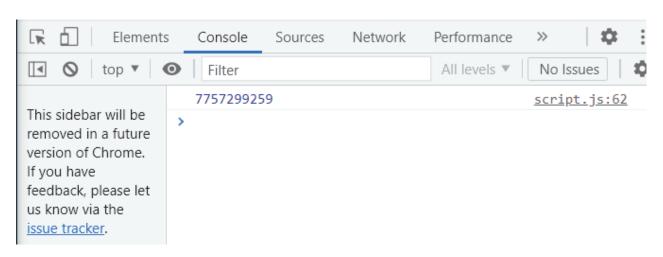
1. Solving problems using array functions on rest countries data

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();
```

<u>Output</u>



1. Solving problems using array functions on rest countries data

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

code

xhr.send();

```
// 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);
};
```

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		Bonaire, Sint Eustatius and Sal	ba <u>script.js:84</u>
		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
▶ ⊕ 1	17 messages 17 user mes No errors	El Salvador	script.js:84
		Guam	script.js:84
		Marshall Islands	script.js:84
		Micronesia (Federated States o	f) <u>script.js:84</u>
A	No warnings	Northern Mariana Islands	script.js:84
• (1)	17 info	Palau	script.js:84
ĕ	No verbose	Panama	script.js:84
		Puerto Rico	script.js:84
		Turks and Caicos Islands	script.js:84
		United States of America	script.js:84
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