

Print the total population of countries using reduce function

e.

Print the country which uses US Dollars as currency.



To solve these problems using the data from the rest countries API



(<https://restcountries.com/v3.1/all>), you can use JavaScript array functions like `'filter'`, `'forEach'`, and `'reduce'`. Here's how you can do it:

javascript

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```
// Make sure you've already retrieved the data and stored it in the 'countriesDetails' variable

// a. Get all the countries from Asia continent/region using Filter function
var asiaCountries = countriesDetails.filter(function(country) {
  return country.region === 'Asia';
});

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

// b. Get all the countries with a population of less than 2 lakhs using Filter function
var lowPopulationCountries = countriesDetails.filter(function(country) {
  return country.population < 200000;
});

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

// c. Print the following details name, capital, flag using forEach function
console.log("Details of countries:");
countriesDetails.forEach(function(country) {
  console.log("Name:", country.name.common);
  console.log("Capital:", country.capital[0]);
  console.log("Flag:", country.flags.png);
});

// d. Print the total population of countries using reduce function
var totalPopulation = countriesDetails.reduce(function(acc, country) {
  return acc + country.population;
}, 0);

console.log("Total population of countries:", totalPopulation);

// e. Print the country which uses US Dollars as currency.
var usDollarCountries = countriesDetails.filter(function(country) {
  return country.currencies && country.currencies.USD;
});

console.log("Countries using US Dollars:", usDollarCountries);
```

Make sure to adjust the population threshold and currency comparison as needed for your specific requirements.

```
console.log("Countries using US Dollars:", usDollarCountries);
```

```
    } else {  
        //Request failed  
        console.log("Request failed", xhr.status);  
    }  
};  
  
    //send the request  
    xhr.send();  
</script>  
</body>  
</html>
```

```
index.html:41 Uncaught TypeError: Cannot read properties of undefined (reading '0')  
    at index.html:41:42  
    at Array.forEach (<anonymous>)  
    at xhr.onload (index.html:39:18)
```



The error you're encountering, "Uncaught TypeError: Cannot read properties of undefined (reading '0') on line 41, indicates that you are trying to access an element of an array that doesn't exist. In this case, it's happening when you're trying to access the first element of the `'capital'` array, which may not be present in some countries' data.



To avoid this error, you should check if the `'capital'` array exists and has elements before attempting to access its first element. You can use conditional checks to handle this situation. Here's the modified code for printing country details:

javascript

Copy code

```
// c. Print the following details name, capital, flag using forEach function  
console.log("Details of countries:");  
countriesDetails.forEach(function(country) {  
    console.log("Name:", country.name.common);  
  
    // Check if the 'capital' array exists and has elements before accessing t  
    if (country.capital && country.capital.length > 0) {  
        console.log("Capital:", country.capital[0]);  
    } else {  
        console.log("Capital: N/A"); // Provide a default value if 'capital' is  
    }  
  
    console.log("Flag:", country.flags.png);  
});
```

With this modification, the code will handle cases where the `'capital'` array is missing or empty, and it will print "N/A" as the capital in such cases.