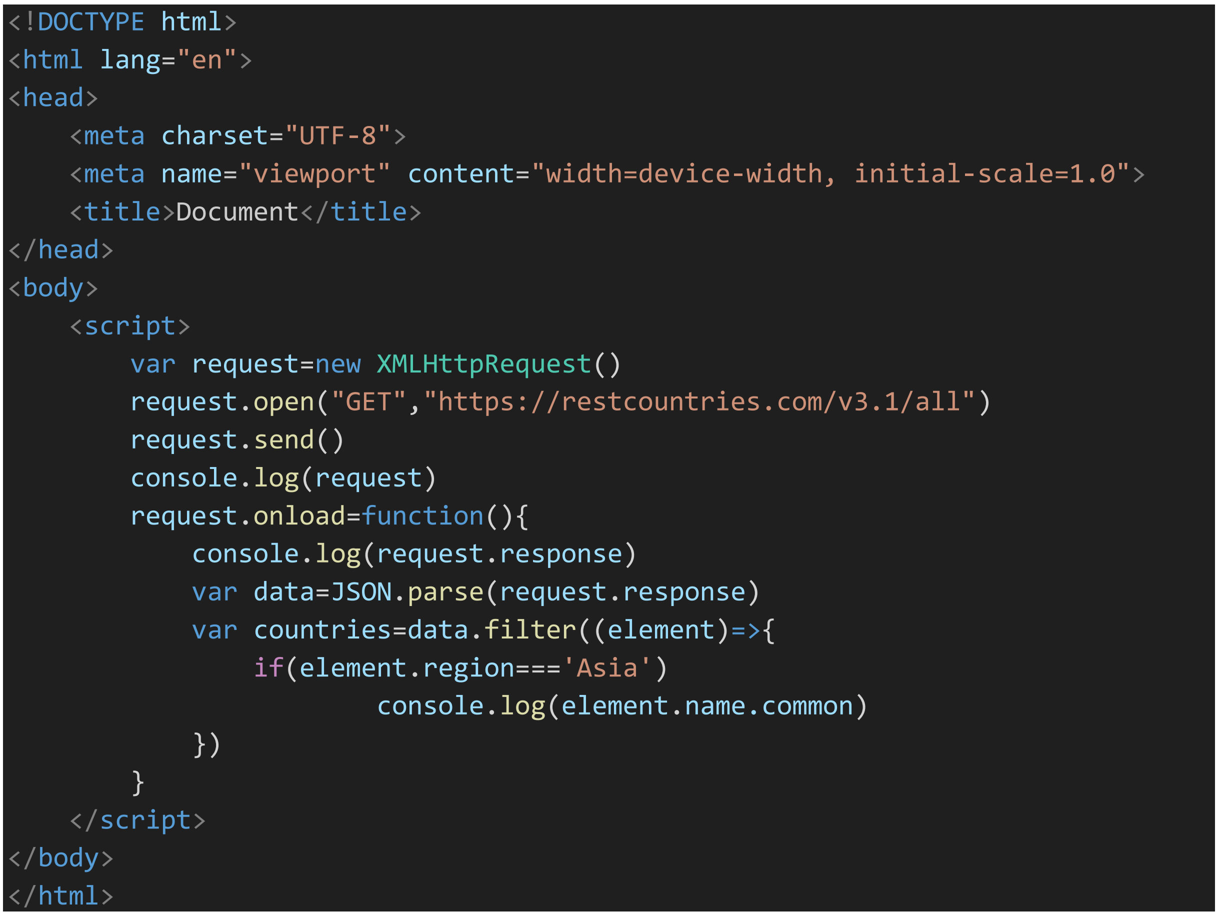
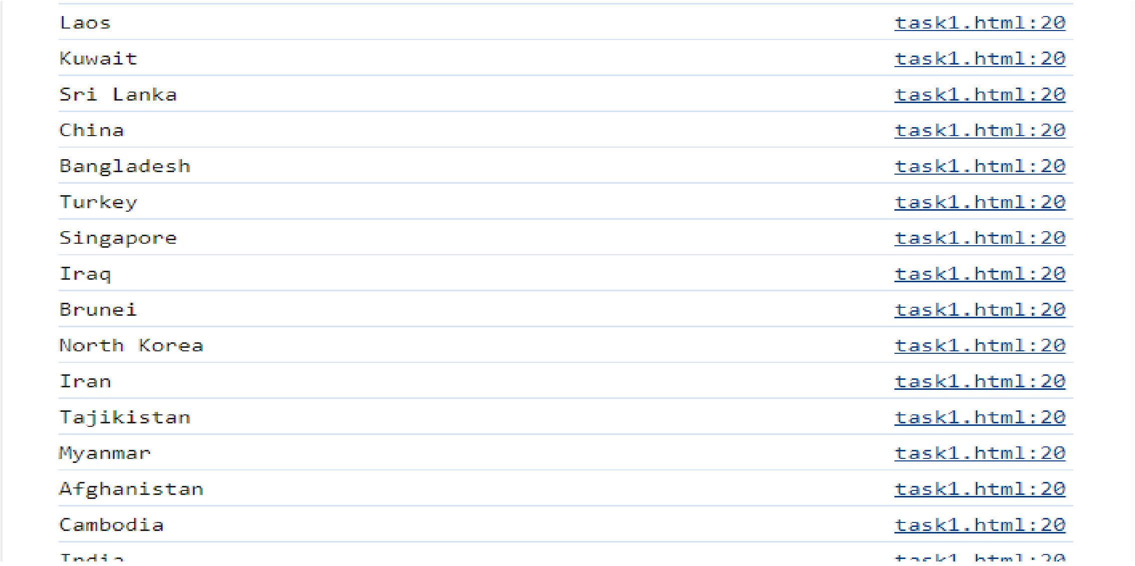
ARRAY METHODS

1. Solving problems using array functions on rest countries data (https://restcountries.com/v3.1/all).
    a. Get all the countries from Asia continent /region using Filter function

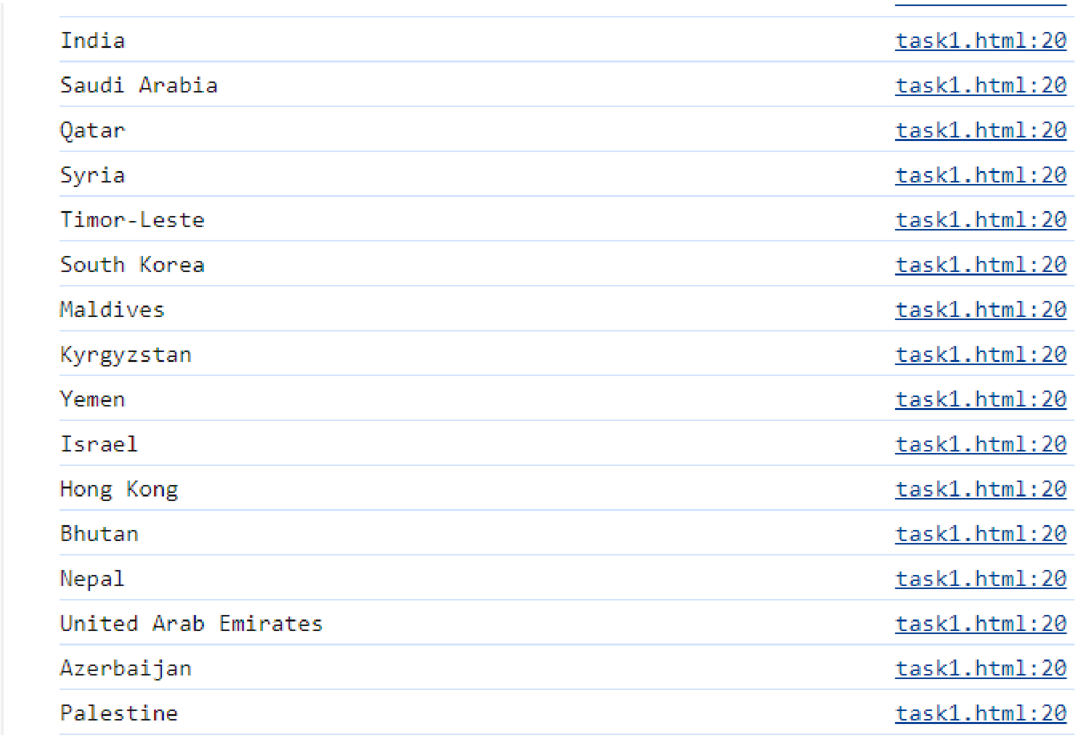


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        var request=new XMLHttpRequest()
        request.open("GET","https://restcountries.com/v3.1/all")
        request.send()
        console.log(request)
        request.onload=function(){
            console.log(request.response)
            var data=JSON.parse(request.response)
            var countries=data.filter((element)=>{
                if(element.region==='Asia')
                        console.log(element.name.common)
            })
        }
    </script>
</body>
</html>
```

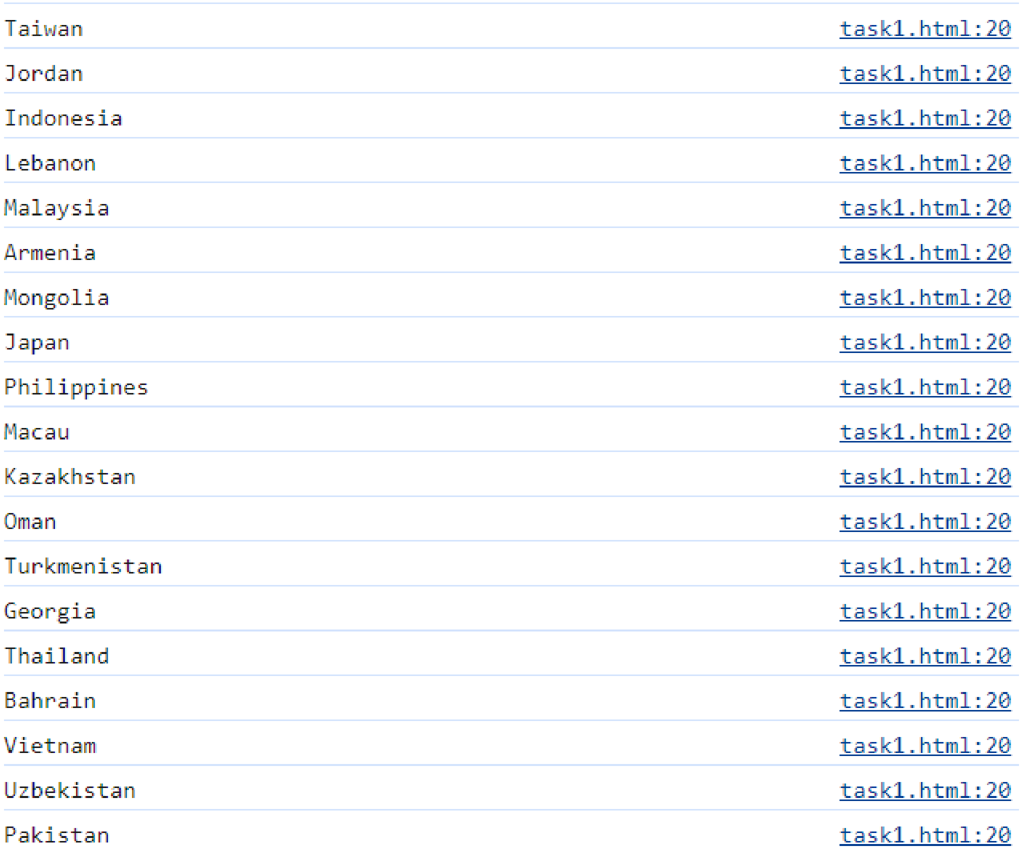
OUTPUT:



```
Laos                                                    task1.html:20
Kuwait                                                  task1.html:20
Sri Lanka                                               task1.html:20
China                                                   task1.html:20
Bangladesh                                              task1.html:20
Turkey                                                  task1.html:20
Singapore                                               task1.html:20
Iraq                                                    task1.html:20
Brunei                                                  task1.html:20
North Korea                                             task1.html:20
Iran                                                    task1.html:20
Tajikistan                                              task1.html:20
Myanmar                                                 task1.html:20
Afghanistan                                             task1.html:20
Cambodia                                                task1.html:20
India                                                   task1.html:20
```

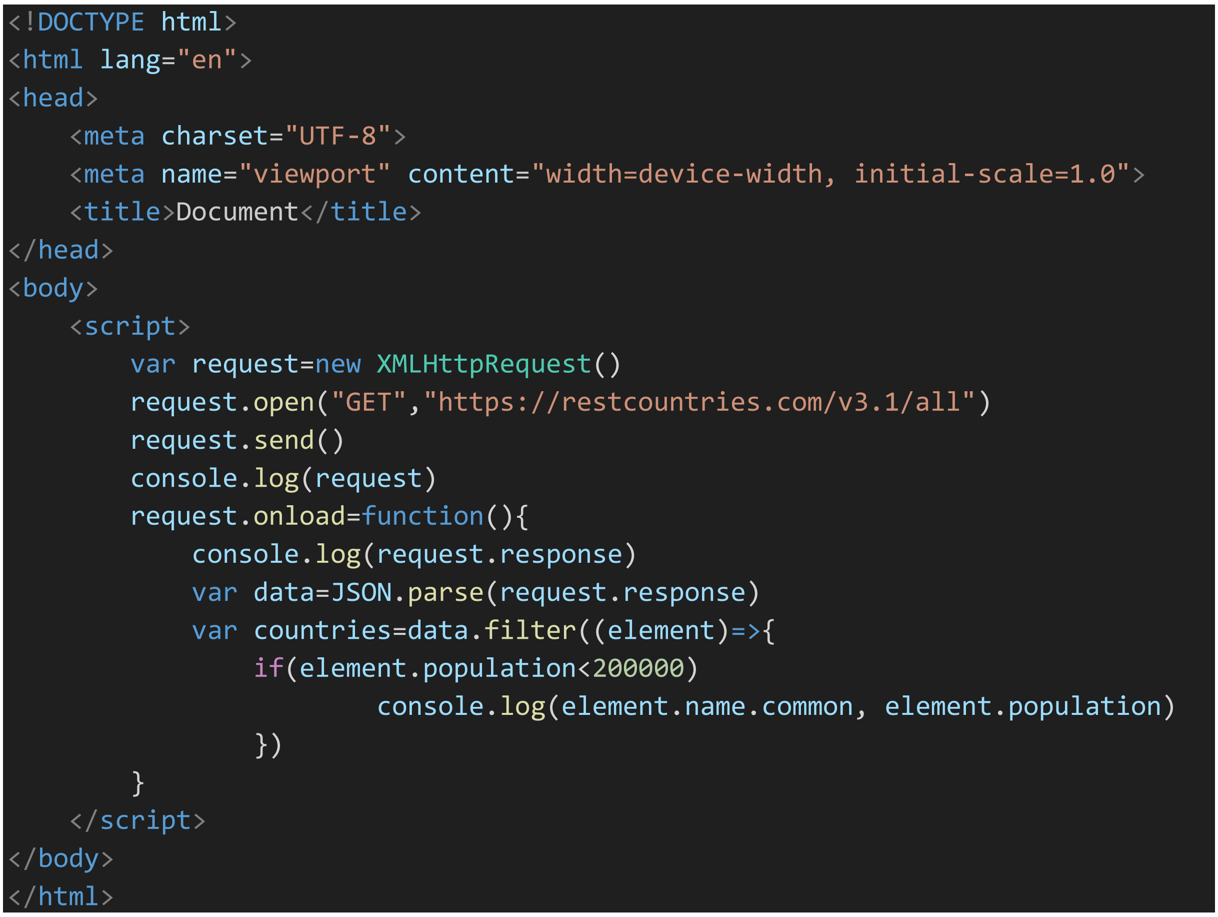


```
India                                      task1.html:20
Saudi Arabia                               task1.html:20
Qatar                                      task1.html:20
Syria                                      task1.html:20
Timor-Leste                                task1.html:20
South Korea                                task1.html:20
Maldives                                   task1.html:20
Kyrgyzstan                                 task1.html:20
Yemen                                      task1.html:20
Israel                                     task1.html:20
Hong Kong                                  task1.html:20
Bhutan                                     task1.html:20
Nepal                                      task1.html:20
United Arab Emirates                       task1.html:20
Azerbaijan                                 task1.html:20
Palestine                                  task1.html:20
```



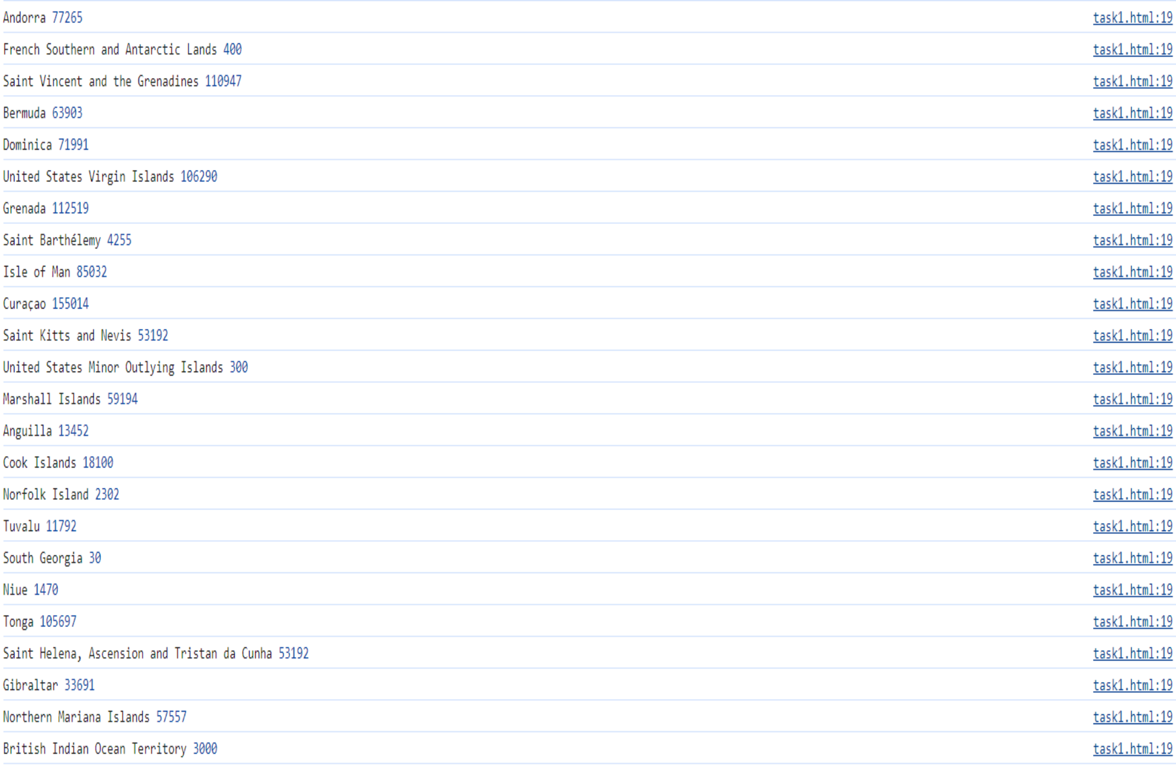
```
Taiwan                                     task1.html:20
Jordan                                     task1.html:20
Indonesia                                  task1.html:20
Lebanon                                    task1.html:20
Malaysia                                   task1.html:20
Armenia                                    task1.html:20
Mongolia                                   task1.html:20
Japan                                      task1.html:20
Philippines                                task1.html:20
Macau                                      task1.html:20
Kazakhstan                                 task1.html:20
Oman                                       task1.html:20
Turkmenistan                               task1.html:20
Georgia                                    task1.html:20
Thailand                                   task1.html:20
Bahrain                                    task1.html:20
Vietnam                                    task1.html:20
Uzbekistan                                 task1.html:20
Pakistan                                   task1.html:20
```

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

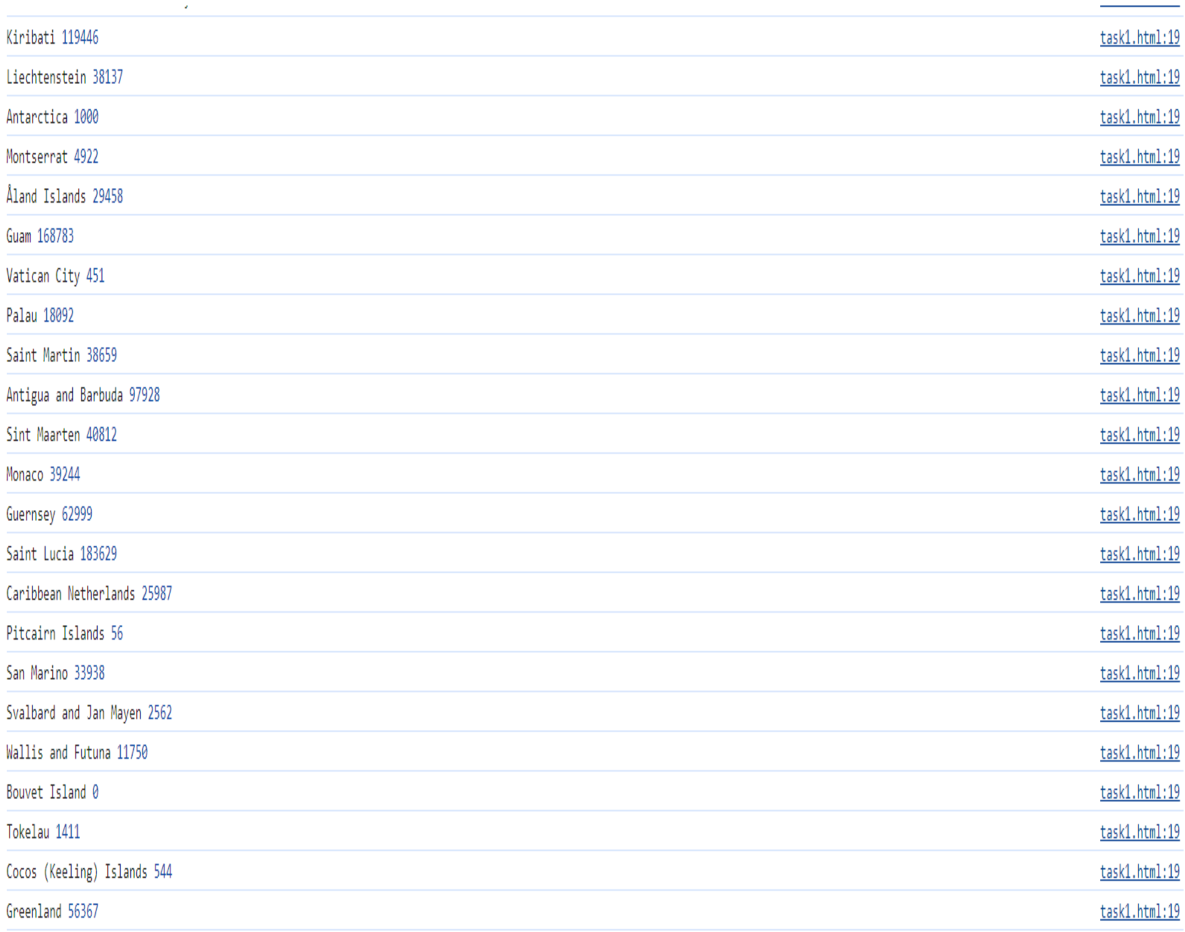


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        var request=new XMLHttpRequest()
        request.open("GET","https://restcountries.com/v3.1/all")
        request.send()
        console.log(request)
        request.onload=function(){
            console.log(request.response)
            var data=JSON.parse(request.response)
            var countries=data.filter((element)=>{
                if(element.population<200000)
                        console.log(element.name.common, element.population)
                })
        }
    </script>
</body>
</html>
```

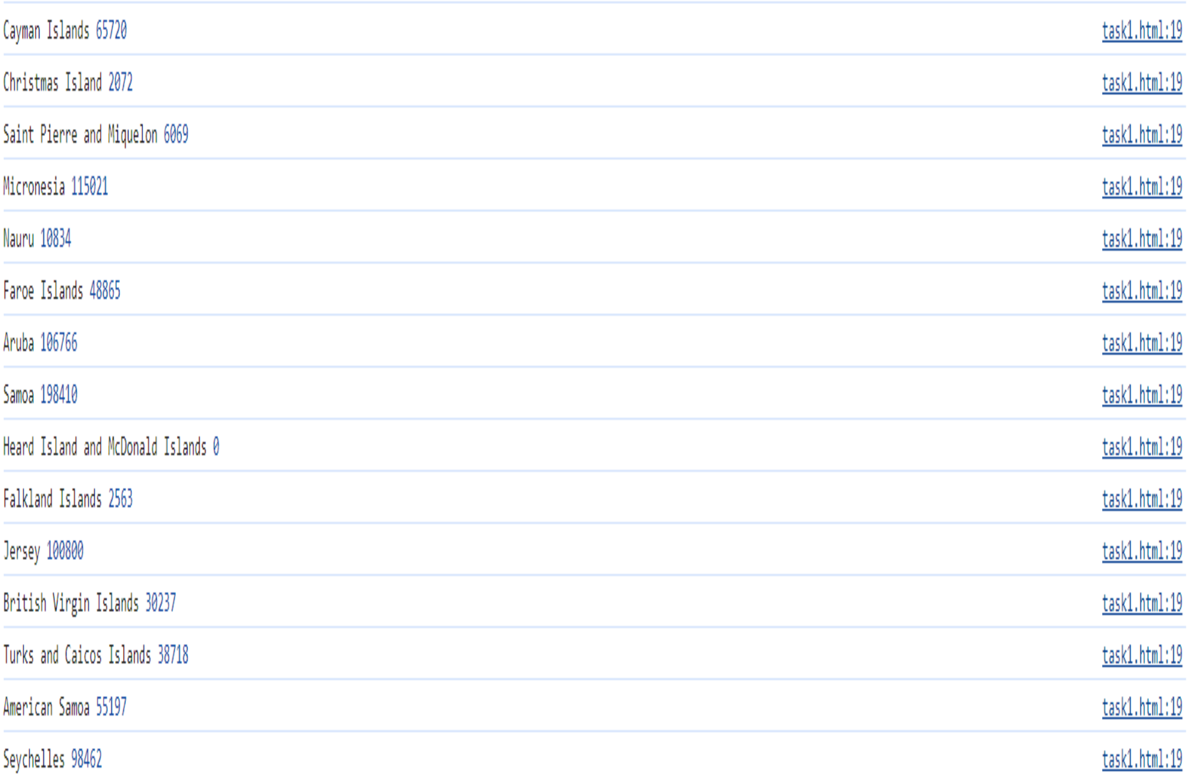
OUTPUT:



```
Andorra 77265                                                    task1.html:19
French Southern and Antarctic Lands 400                          task1.html:19
Saint Vincent and the Grenadines 110947                          task1.html:19
Bermuda 63903                                                    task1.html:19
Dominica 71991                                                   task1.html:19
United States Virgin Islands 106290                              task1.html:19
Grenada 112519                                                   task1.html:19
Saint Barthélemy 4255                                            task1.html:19
Isle of Man 85032                                                task1.html:19
Curaçao 155014                                                   task1.html:19
Saint Kitts and Nevis 53192                                      task1.html:19
United States Minor Outlying Islands 300                         task1.html:19
Marshall Islands 59194                                           task1.html:19
Anguilla 13452                                                   task1.html:19
Cook Islands 18100                                               task1.html:19
Norfolk Island 2302                                              task1.html:19
Tuvalu 11792                                                     task1.html:19
South Georgia 30                                                 task1.html:19
Niue 1470                                                        task1.html:19
Tonga 105697                                                     task1.html:19
Saint Helena, Ascension and Tristan da Cunha 53192               task1.html:19
Gibraltar 33691                                                  task1.html:19
Northern Mariana Islands 57557                                   task1.html:19
British Indian Ocean Territory 3000                              task1.html:19
```

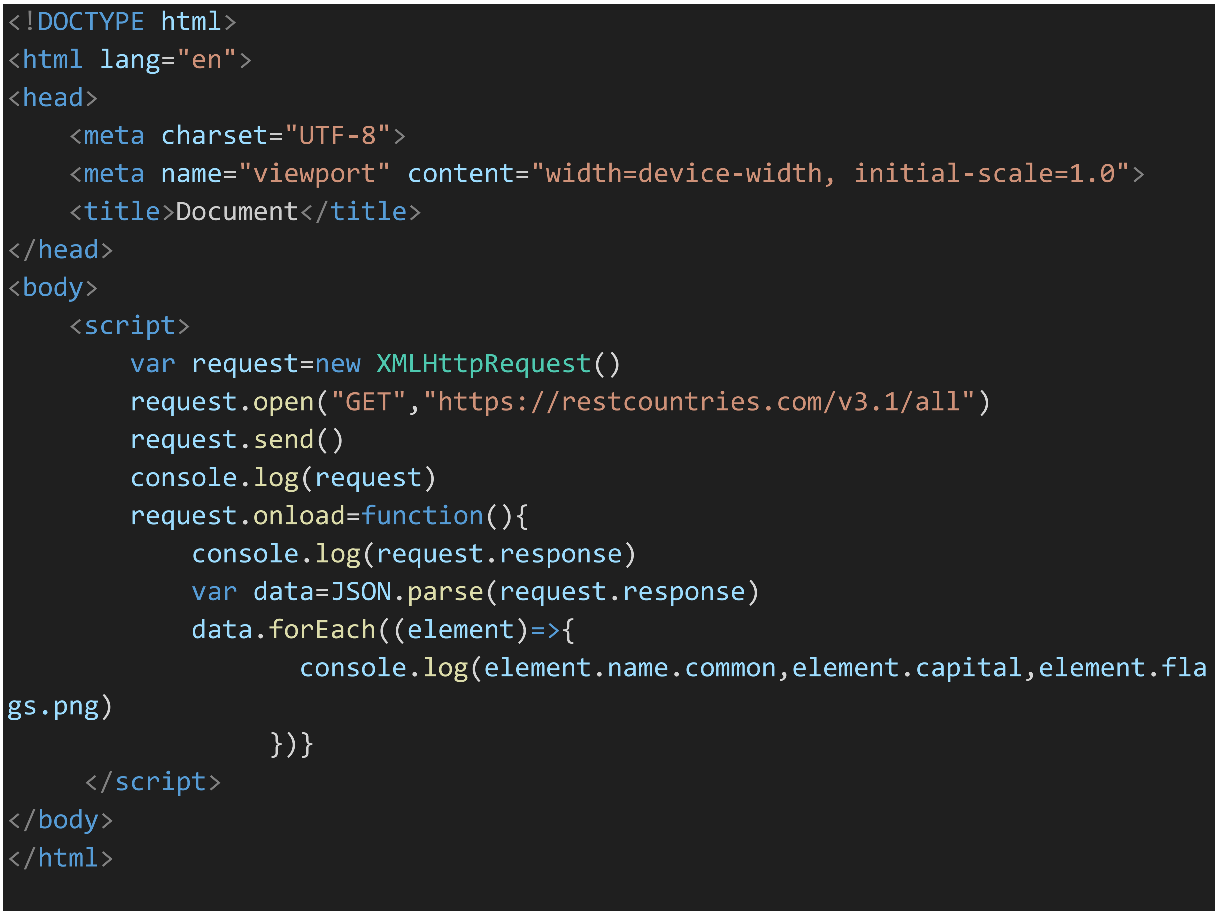


```
Kiribati 119446                                          task1.html:19
Liechtenstein 38137                                      task1.html:19
Antarctica 1000                                          task1.html:19
Montserrat 4922                                          task1.html:19
Åland Islands 29458                                      task1.html:19
Guam 168783                                              task1.html:19
Vatican City 451                                         task1.html:19
Palau 18092                                              task1.html:19
Saint Martin 38659                                       task1.html:19
Antigua and Barbuda 97928                                task1.html:19
Sint Maarten 40812                                       task1.html:19
Monaco 39244                                             task1.html:19
Guernsey 62999                                           task1.html:19
Saint Lucia 183629                                       task1.html:19
Caribbean Netherlands 25987                              task1.html:19
Pitcairn Islands 56                                      task1.html:19
San Marino 33938                                         task1.html:19
Svalbard and Jan Mayen 2562                              task1.html:19
Wallis and Futuna 11750                                  task1.html:19
Bouvet Island 0                                          task1.html:19
Tokelau 1411                                             task1.html:19
Cocos (Keeling) Islands 544                              task1.html:19
Greenland 56367                                          task1.html:19
```



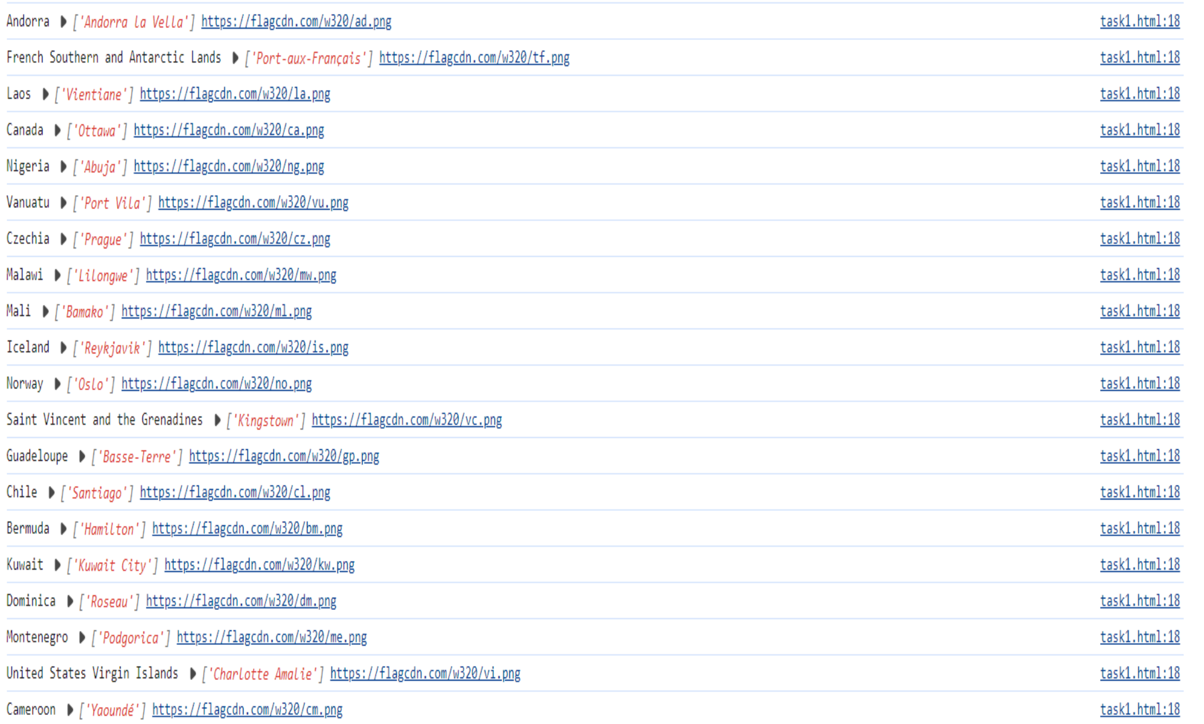
```
Cayman Islands 65720                                     task1.html:19
Christmas Island 2072                                    task1.html:19
Saint Pierre and Miquelon 6069                           task1.html:19
Micronesia 115021                                        task1.html:19
Nauru 10834                                              task1.html:19
Faroe Islands 48865                                      task1.html:19
Aruba 106766                                             task1.html:19
Samoa 198410                                             task1.html:19
Heard Island and McDonald Islands 0                      task1.html:19
Falkland Islands 2563                                    task1.html:19
Jersey 100800                                            task1.html:19
British Virgin Islands 30237                             task1.html:19
Turks and Caicos Islands 38718                           task1.html:19
American Samoa 55197                                     task1.html:19
Seychelles 98462                                         task1.html:19
```

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

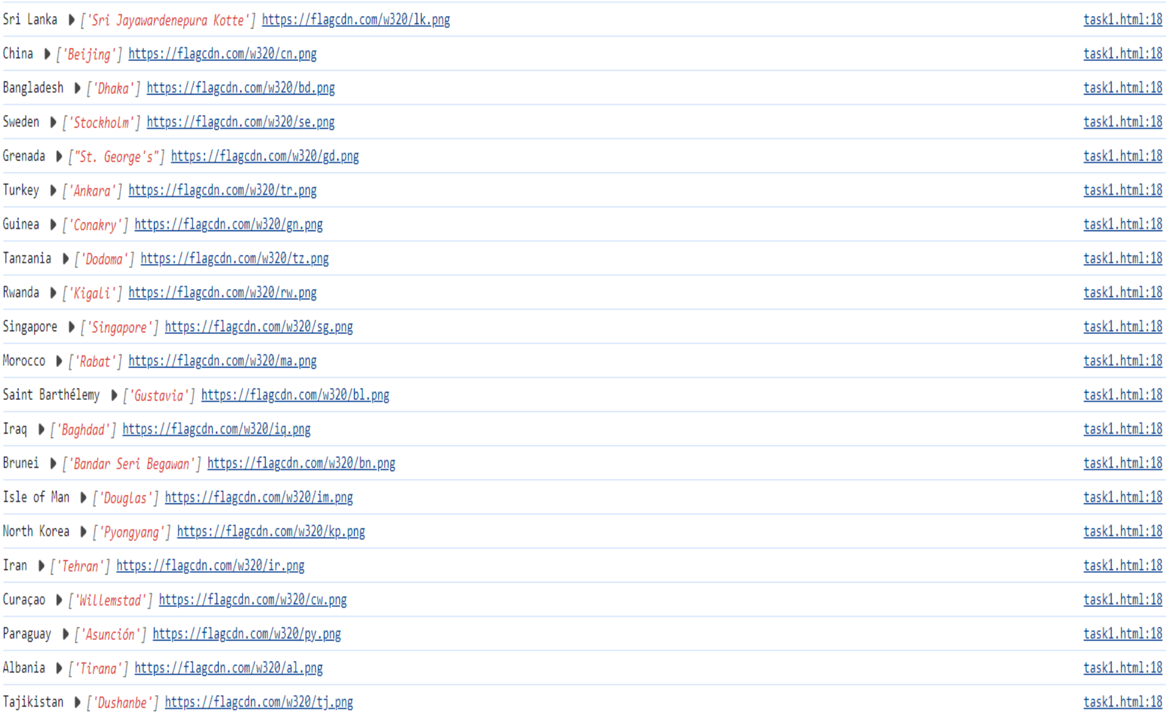


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        var request=new XMLHttpRequest()
        request.open("GET","https://restcountries.com/v3.1/all")
        request.send()
        console.log(request)
        request.onload=function(){
            console.log(request.response)
            var data=JSON.parse(request.response)
            data.forEach((element)=>{
                   console.log(element.name.common,element.capital,element.fla
gs.png)
                 })}
     </script>
</body>
</html>
```

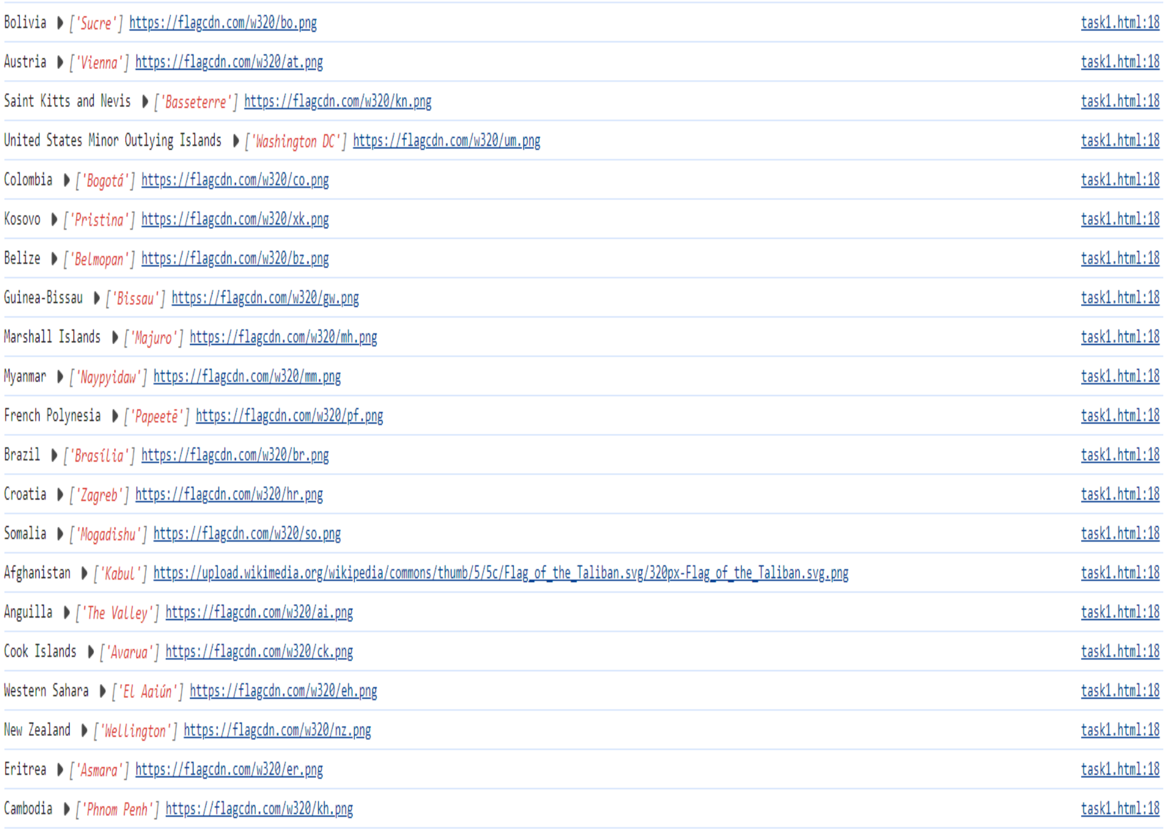
OUTPUT:



```
Andorra ▶ ['Andorra la Vella'] https://flagcdn.com/w320/ad.png                             task1.html:18
French Southern and Antarctic Lands ▶ ['Port-aux-Français'] https://flagcdn.com/w320/tf.png task1.html:18
Laos ▶ ['Vientiane'] https://flagcdn.com/w320/la.png                                       task1.html:18
Canada ▶ ['Ottawa'] https://flagcdn.com/w320/ca.png                                        task1.html:18
Nigeria ▶ ['Abuja'] https://flagcdn.com/w320/ng.png                                        task1.html:18
Vanuatu ▶ ['Port Vila'] https://flagcdn.com/w320/vu.png                                    task1.html:18
Czechia ▶ ['Prague'] https://flagcdn.com/w320/cz.png                                       task1.html:18
Malawi ▶ ['Lilongwe'] https://flagcdn.com/w320/mw.png                                      task1.html:18
Mali ▶ ['Bamako'] https://flagcdn.com/w320/ml.png                                          task1.html:18
Iceland ▶ ['Reykjavik'] https://flagcdn.com/w320/is.png                                    task1.html:18
Norway ▶ ['Oslo'] https://flagcdn.com/w320/no.png                                          task1.html:18
Saint Vincent and the Grenadines ▶ ['Kingstown'] https://flagcdn.com/w320/vc.png           task1.html:18
Guadeloupe ▶ ['Basse-Terre'] https://flagcdn.com/w320/gp.png                               task1.html:18
Chile ▶ ['Santiago'] https://flagcdn.com/w320/cl.png                                       task1.html:18
Bermuda ▶ ['Hamilton'] https://flagcdn.com/w320/bm.png                                     task1.html:18
Kuwait ▶ ['Kuwait City'] https://flagcdn.com/w320/kw.png                                   task1.html:18
Dominica ▶ ['Roseau'] https://flagcdn.com/w320/dm.png                                      task1.html:18
Montenegro ▶ ['Podgorica'] https://flagcdn.com/w320/me.png                                 task1.html:18
United States Virgin Islands ▶ ['Charlotte Amalie'] https://flagcdn.com/w320/vi.png        task1.html:18
Cameroon ▶ ['Yaoundé'] https://flagcdn.com/w320/cm.png                                     task1.html:18
```



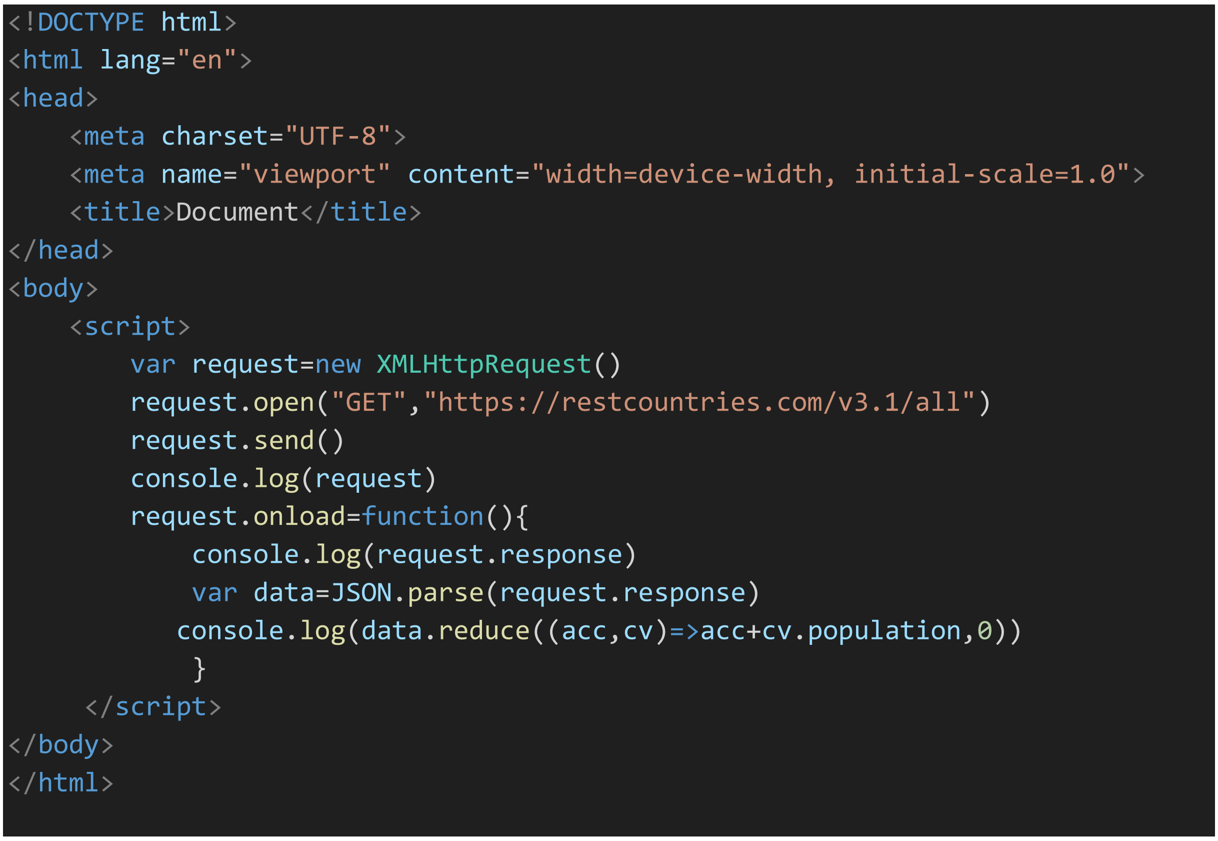
```
Sri Lanka  ▶ ['Sri Jayawardenepura Kotte'] https://flagcdn.com/w320/lk.png          task1.html:18
China  ▶ ['Beijing'] https://flagcdn.com/w320/cn.png                                task1.html:18
Bangladesh  ▶ ['Dhaka'] https://flagcdn.com/w320/bd.png                            task1.html:18
Sweden  ▶ ['Stockholm'] https://flagcdn.com/w320/se.png                             task1.html:18
Grenada  ▶ ["St. George's"] https://flagcdn.com/w320/gd.png                         task1.html:18
Turkey  ▶ ['Ankara'] https://flagcdn.com/w320/tr.png                                task1.html:18
Guinea  ▶ ['Conakry'] https://flagcdn.com/w320/gn.png                               task1.html:18
Tanzania  ▶ ['Dodoma'] https://flagcdn.com/w320/tz.png                              task1.html:18
Rwanda  ▶ ['Kigali'] https://flagcdn.com/w320/rw.png                                task1.html:18
Singapore  ▶ ['Singapore'] https://flagcdn.com/w320/sg.png                          task1.html:18
Morocco  ▶ ['Rabat'] https://flagcdn.com/w320/ma.png                                task1.html:18
Saint Barthélemy  ▶ ['Gustavia'] https://flagcdn.com/w320/bl.png                    task1.html:18
Iraq  ▶ ['Baghdad'] https://flagcdn.com/w320/iq.png                                 task1.html:18
Brunei  ▶ ['Bandar Seri Begawan'] https://flagcdn.com/w320/bn.png                   task1.html:18
Isle of Man  ▶ ['Douglas'] https://flagcdn.com/w320/im.png                          task1.html:18
North Korea  ▶ ['Pyongyang'] https://flagcdn.com/w320/kp.png                        task1.html:18
Iran  ▶ ['Tehran'] https://flagcdn.com/w320/ir.png                                  task1.html:18
Curaçao  ▶ ['Willemstad'] https://flagcdn.com/w320/cw.png                           task1.html:18
Paraguay  ▶ ['Asunción'] https://flagcdn.com/w320/py.png                            task1.html:18
Albania  ▶ ['Tirana'] https://flagcdn.com/w320/al.png                               task1.html:18
Tajikistan  ▶ ['Dushanbe'] https://flagcdn.com/w320/tj.png                          task1.html:18
```



```
Bolivia  ▶ ['Sucre'] https://flagcdn.com/w320/bo.png                                task1.html:18
Austria  ▶ ['Vienna'] https://flagcdn.com/w320/at.png                               task1.html:18
Saint Kitts and Nevis  ▶ ['Basseterre'] https://flagcdn.com/w320/kn.png             task1.html:18
United States Minor Outlying Islands  ▶ ['Washington DC'] https://flagcdn.com/w320/um.png   task1.html:18
Colombia  ▶ ['Bogotá'] https://flagcdn.com/w320/co.png                              task1.html:18
Kosovo  ▶ ['Pristina'] https://flagcdn.com/w320/xk.png                              task1.html:18
Belize  ▶ ['Belmopan'] https://flagcdn.com/w320/bz.png                              task1.html:18
Guinea-Bissau  ▶ ['Bissau'] https://flagcdn.com/w320/gw.png                         task1.html:18
Marshall Islands  ▶ ['Majuro'] https://flagcdn.com/w320/mh.png                      task1.html:18
Myanmar  ▶ ['Naypyidaw'] https://flagcdn.com/w320/mm.png                            task1.html:18
French Polynesia  ▶ ['Papeetē'] https://flagcdn.com/w320/pf.png                     task1.html:18
Brazil  ▶ ['Brasília'] https://flagcdn.com/w320/br.png                              task1.html:18
Croatia  ▶ ['Zagreb'] https://flagcdn.com/w320/hr.png                               task1.html:18
Somalia  ▶ ['Mogadishu'] https://flagcdn.com/w320/so.png                            task1.html:18
Afghanistan  ▶ ['Kabul'] https://upload.wikimedia.org/wikipedia/commons/thumb/5/5c/Flag_of_the_Taliban.svg/320px-Flag_of_the_Taliban.svg.png   task1.html:18
Anguilla  ▶ ['The Valley'] https://flagcdn.com/w320/ai.png                          task1.html:18
Cook Islands  ▶ ['Avarua'] https://flagcdn.com/w320/ck.png                          task1.html:18
Western Sahara  ▶ ['El Aaiún'] https://flagcdn.com/w320/eh.png                      task1.html:18
New Zealand  ▶ ['Wellington'] https://flagcdn.com/w320/nz.png                       task1.html:18
Eritrea  ▶ ['Asmara'] https://flagcdn.com/w320/er.png                               task1.html:18
Cambodia  ▶ ['Phnom Penh'] https://flagcdn.com/w320/kh.png                          task1.html:18
```

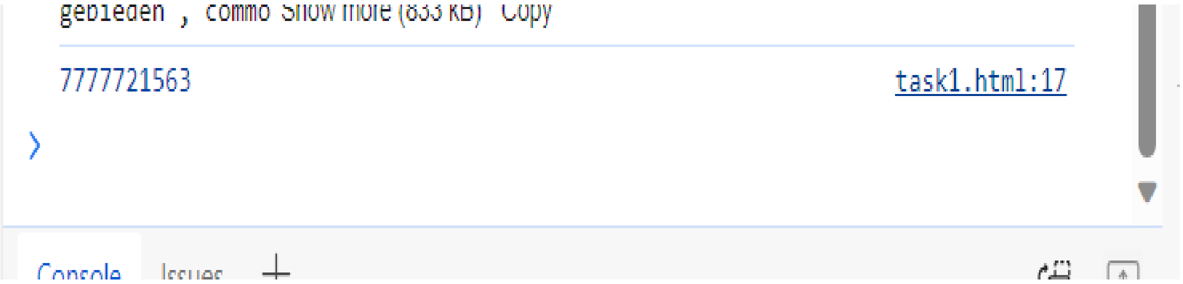
Etc….

d. Print the total population of countries using reduce function



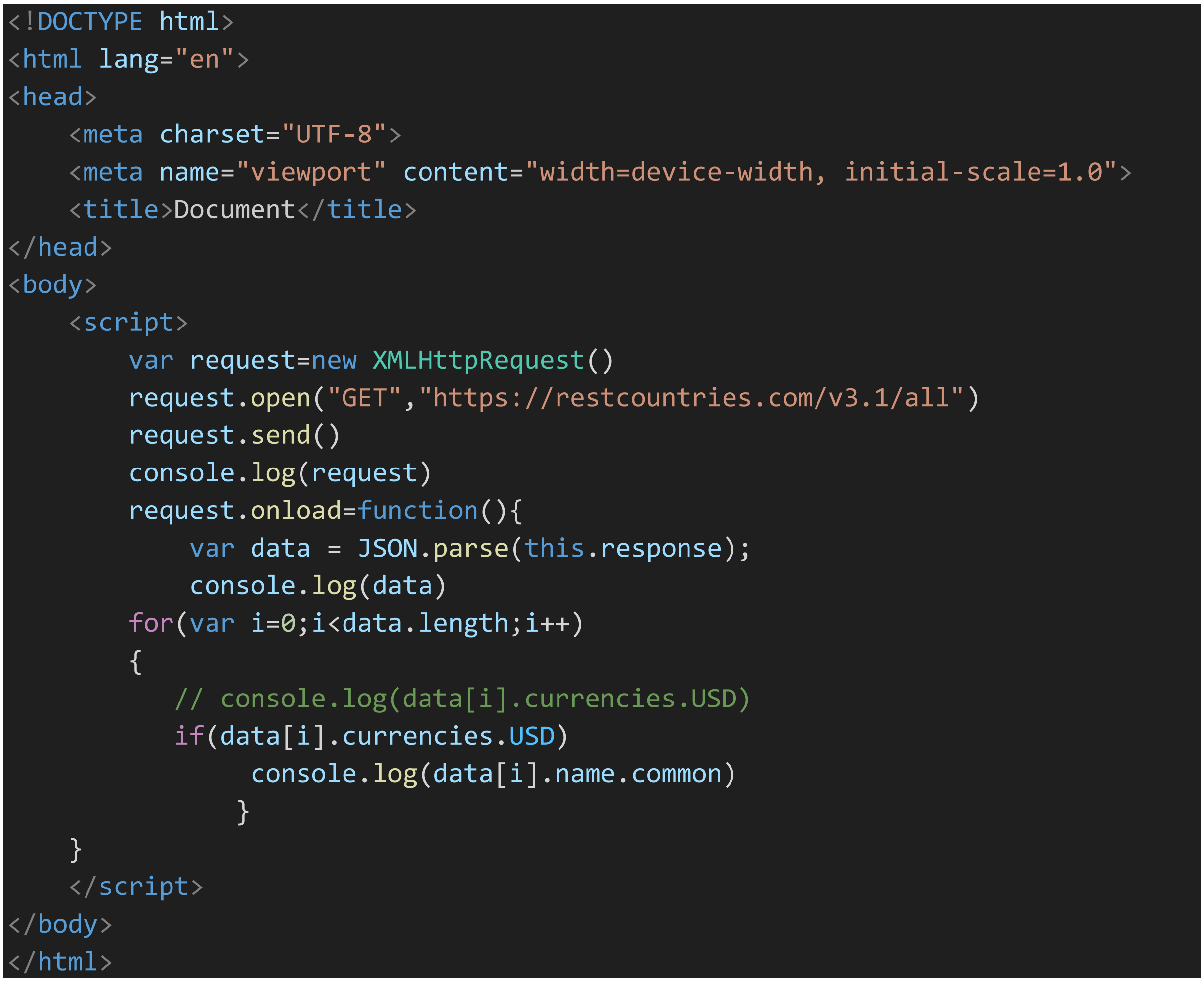
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        var request=new XMLHttpRequest()
        request.open("GET","https://restcountries.com/v3.1/all")
        request.send()
        console.log(request)
        request.onload=function(){
            console.log(request.response)
            var data=JSON.parse(request.response)
           console.log(data.reduce((acc,cv)=>acc+cv.population,0))
            }
     </script>
</body>
</html>
```

OUTPUT:



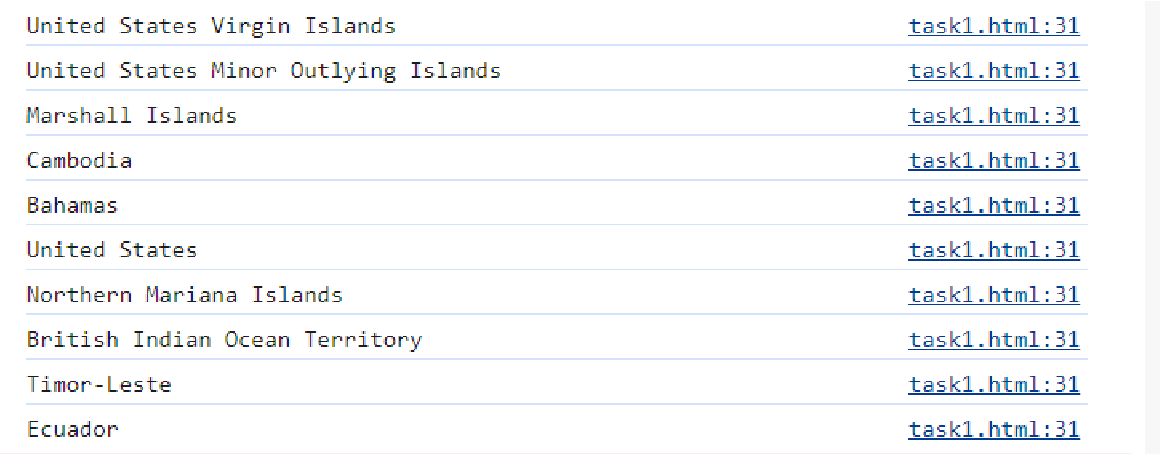
```
gebieden , commo Show more (833 kB) Copy
7777721563                                  task1.html:17
>
```

e. Print the country that uses US dollars as currency.



```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        var request=new XMLHttpRequest()
        request.open("GET","https://restcountries.com/v3.1/all")
        request.send()
        console.log(request)
        request.onload=function(){
            var data = JSON.parse(this.response);
            console.log(data)
        for(var i=0;i<data.length;i++)
        {
           // console.log(data[i].currencies.USD)
           if(data[i].currencies.USD)
                console.log(data[i].name.common)
               }
    }
    </script>
</body>
</html>
```

OUTPUT:



```
United States Virgin Islands                          task1.html:31
United States Minor Outlying Islands                  task1.html:31
Marshall Islands                                      task1.html:31
Cambodia                                              task1.html:31
Bahamas                                               task1.html:31
United States                                         task1.html:31
Northern Mariana Islands                              task1.html:31
British Indian Ocean Territory                        task1.html:31
Timor-Leste                                           task1.html:31
Ecuador                                               task1.html:31
```