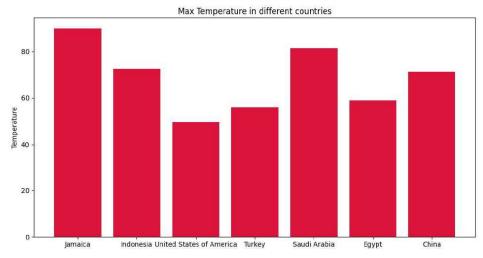
```
In [12]: import requests
            import pandas as pd
            import json
            import matplotlib.pyplot as plt
            import seaborn as sns
            API_key = '89b6535b863227f5b3200a4f58ca7650'
            countries = ['Jamaica', 'Indonesia', 'United States', "Turkey", 'Saudi Arabia', "Egypt", 'China']
            country_name_list = []
            maxtemp = []
mintemp = []
            humidity = []
            windspeed = []
            for country_names in countries:
                 url = f'http://api.openweathermap.org/data/2.5/weather?q={country_names}&APPID={API_key}&units=imperial'
                 r = requests.get(url)
                 data = r.json()
                 formatted_json = json.dumps(data, sort_keys = True, indent = 4)
                 country_name_list.append(data['name'])
maxtemp.append(data['main']['temp_max'])
mintemp.append(data['main']['temp_min'])
humidity.append(data['main']['humidity'])
windspeed.append(data['wind']['speed'])
            df = pd.DataFrame()
           ar = pd.Datarrame()
df['Names'] = country_name_list
df['Max_Temp'] = maxtemp
df['Min_Temp'] = mintemp
df['Humidity'] = humidity
df['WindSpeed'] = windspeed
            df.head()
Out[12]:
                                Names Max_Temp Min_Temp Humidity WindSpeed
             0
                                                                        52
                               Jamaica
                                              89.91
                                                          89.91
             1
                                              72.34
                                                          72.34
                                                                        73
                                                                                   4.23
                              Indonesia
                                              49.41
                                                                        45
             2 United States of America
                                                          49,41
                                                                                  14.07
                                Turkey
                                              56.12
                                                         56.12
             3
                                                                        84
                                                                                   3.31
                           Saudi Arabia
                                              81,48
                                                          81,48
                                                                        13
                                                                                   4 72
In [13]: df.isna().sum()
Out[13]: Names
            Max_Temp
            Min Temp
                             0
            Humidity
            WindSpeed
            dtype: int64
In [14]: df.duplicated().sum()
Out[14]: 0
```

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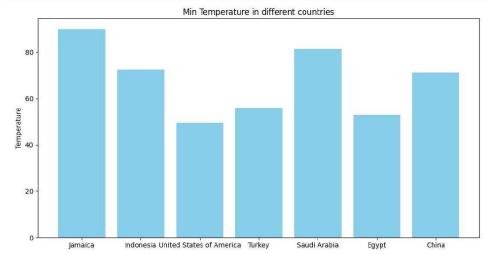
In [15]: df.describe() Out[15]: Max_Temp Min_Temp Humidity WindSpeed 7.000000 7.000000 7.000000 7.000000 68.455714 67.607143 52.714286 9.261429 14.490269 15.299906 24.095050 5.025695 49.410000 49.410000 13.000000 25% 57.470000 54.500000 40.500000 4.475000 50% 71.110000 71.110000 52.000000 10.780000 **75%** 76.910000 76.910000 69.500000 13.410000 max 89.910000 89.910000 84.000000 14.970000 In [16]: df.info() <class 'pandas.core.frame.DataFrame'> RangeIndex: 7 entries, 0 to 6 Data columns (total 5 columns): # Column Non-Null Count Dtype 0 Names 1 Max_Te 7 non-null object Max_Temp 7 non-null float64 Min_Temp 7 non-null float64 Humidity 7 non-null WindSpeed 7 non-null int64 float64 dtypes: float64(3), int64(1), object(1) memory usage: 408.0+ bytes In [28]: plt.figure(figsize=(12,6)) plt.bar(df['Names'], df['Max_Temp'], color='crimson') plt.title("Max Temperature in different countries") plt.ylabel("Temperature")



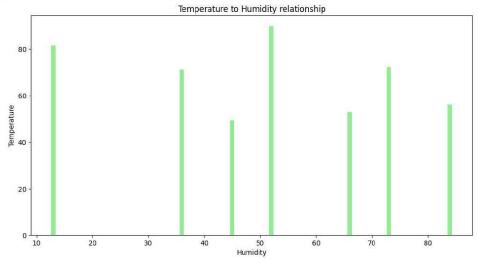
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```
In [29]:
plt.figure(figsize=(12,6))
plt.bar(df['Mames'], df['Min_Temp'], color='skyblue')
plt.title("Min Temperature in different countries")
plt.ylabel("Temperature")
plt.show()
```







In []:

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