


```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
```

```
from google.colab import drive
drive.mount('/content/drive')
```


```
data = pd.read_csv("population.csv")
```

```
data.head(266)
```



	Country Name	Country Code	Indicator Name	Indicator Code	1960	1961	1962	1963	1964	1965	...	
0	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0	57475.0	58178.0	58782.0	...	102
1	Africa Eastern and Southern	AFE	Population, total	SP.POP.TOTL	130692579.0	134169237.0	137835590.0	141630546.0	145605995.0	149742351.0	...	567892
2	Afghanistan	AFG	Population, total	SP.POP.TOTL	8622466.0	8790140.0	8969047.0	9157465.0	9355514.0	9565147.0	...	31541
3	Africa Western and Central	AFW	Population, total	SP.POP.TOTL	97256290.0	99314028.0	101445032.0	103667517.0	105959979.0	108336203.0	...	387204
4	Angola	AGO	Population, total	SP.POP.TOTL	5357195.0	5441333.0	5521400.0	5599827.0	5673199.0	5736582.0	...	26147
...
261	Kosovo	XKX	Population, total	SP.POP.TOTL	947000.0	966000.0	994000.0	1022000.0	1050000.0	1078000.0	...	1818
262	Yemen, Rep.	YEM	Population, total	SP.POP.TOTL	5542459.0	5646668.0	5753386.0	5860197.0	5973803.0	6097298.0	...	26984
263	South Africa	ZAF	Population, total	SP.POP.TOTL	16520441.0	16989464.0	17503133.0	18042215.0	18603097.0	19187194.0	...	53873
264	Zambia	ZMB	Population, total	SP.POP.TOTL	3119430.0	3219451.0	3323427.0	3431381.0	3542764.0	3658024.0	...	15234
265	Zimbabwe	ZWE	Population, total	SP.POP.TOTL	3806310.0	3925952.0	4049778.0	4177931.0	4310332.0	4447149.0	...	13555

266 rows × 67 columns



```
countries_to_plot = ['United States', 'Canada', 'Brazil', 'Japan', 'Germany', 'France', 'India']
```

```
#Filtering the data frame
```

```
filtered_data = data[data['Country Name'].isin(countries_to_plot)]
```

```
#Creating the bar chart
```

```
plt.bar(filtered_data['Country Name'], filtered_data['2022'])
```

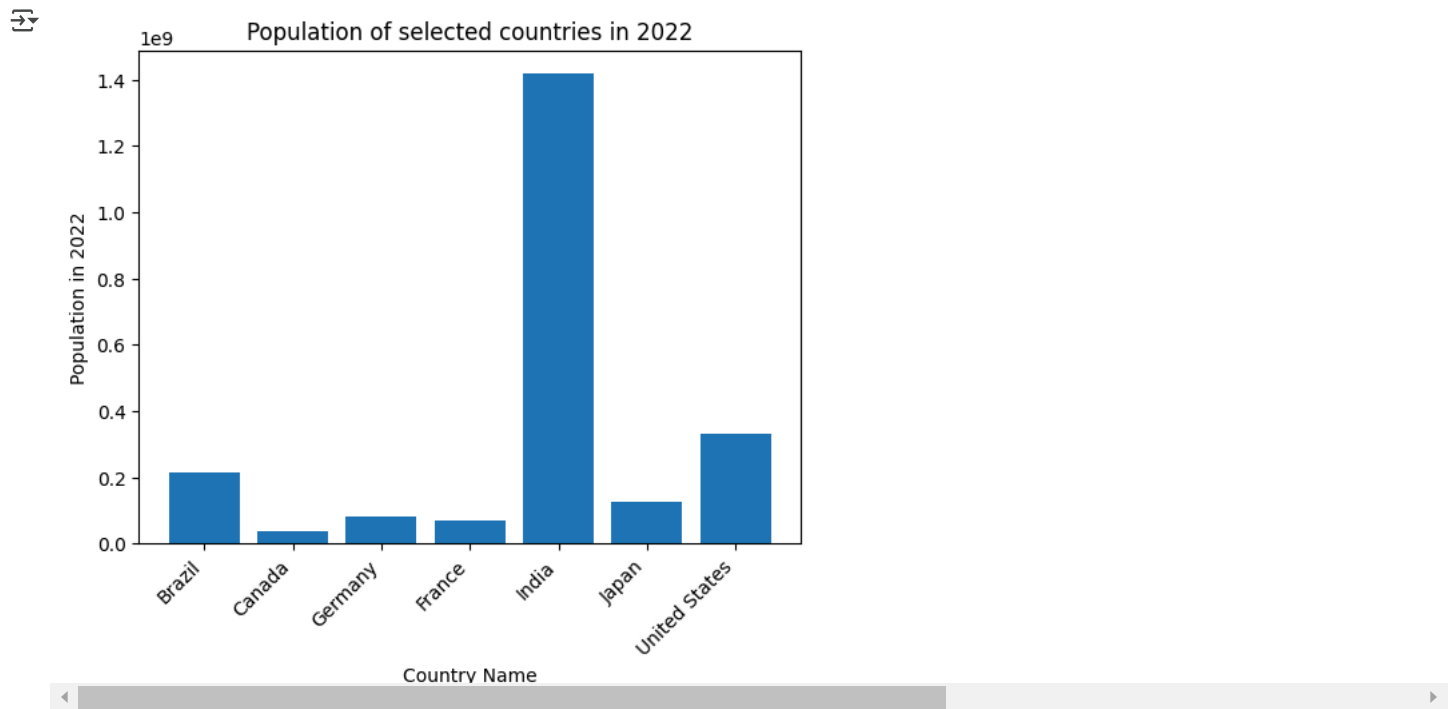
```
plt.xlabel('Country Name')
```

```
plt.ylabel('Population in 2022')
```

```
plt.title('Population of selected countries in 2022')
```

```
plt.xticks(rotation=45, ha='right') #Rotating the x-axis labels for readability
```

```
plt.show()
```



```
import matplotlib.pyplot as plt

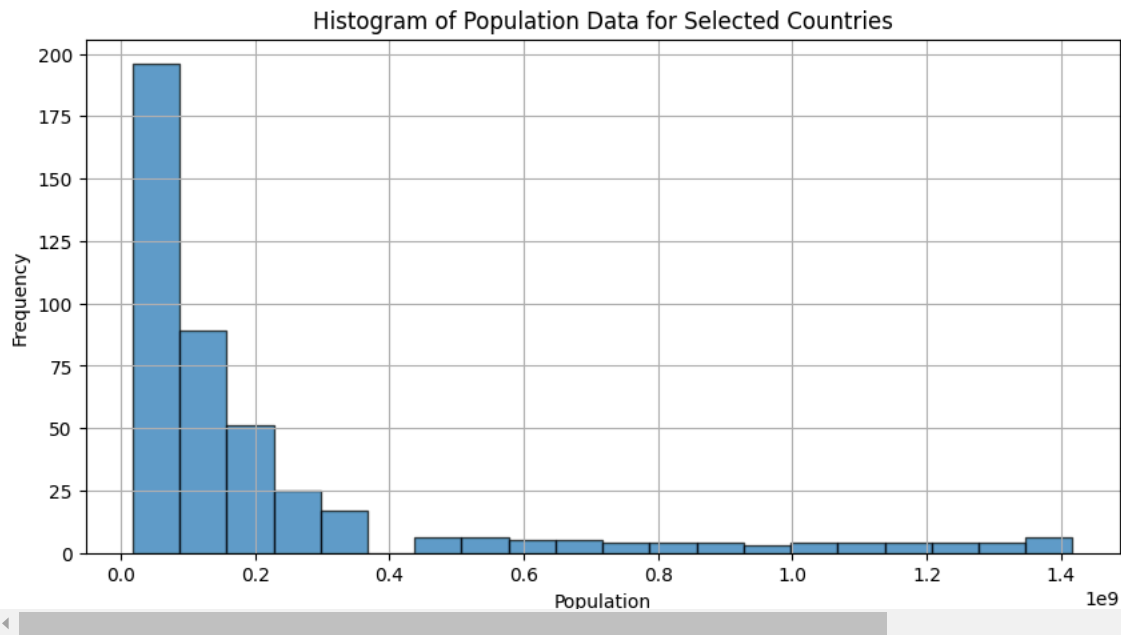
# Filtering the data frame
filtered_data = data[data['Country Name'].isin(countries_to_plot)]

# Transposing the dataframe to make years the index
filtered_data = filtered_data.set_index('Country Name').T

# Dropping non-year columns if any (keeping only numeric years)
filtered_data = filtered_data.iloc[1:].apply(pd.to_numeric, errors='coerce')

# Plotting histogram of population data
plt.figure(figsize=(10, 5))
plt.hist(filtered_data.values.flatten(), bins=20, edgecolor='black', alpha=0.7)

plt.xlabel('Population')
plt.ylabel('Frequency')
plt.title('Histogram of Population Data for Selected Countries')
plt.grid()
plt.show()
```



```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd

# Loading the dataset
data = pd.read_csv('population.csv')

# Transposing the dataframe to make years the index
data = data.set_index('Country Name').T

# Dropping non-year columns if any (keeping only numeric years)
data = data.iloc[1:].apply(pd.to_numeric, errors='coerce')

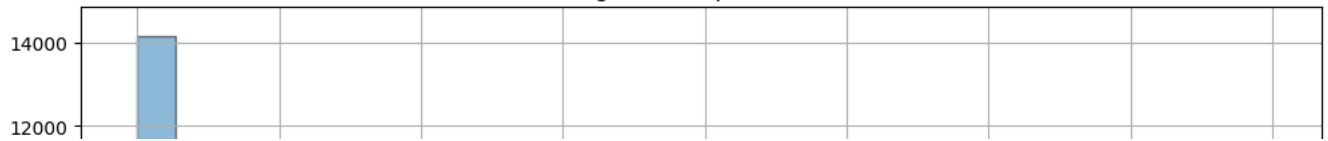
# Flattening the data
hist_data = data.values.flatten()

# Plotting histogram of population data
plt.figure(figsize=(12, 6))
plt.hist(hist_data, bins=30, alpha=0.5, edgecolor='black')

plt.xlabel('Population')
plt.ylabel('Frequency')
plt.title('Histogram of Population Data')
plt.grid()
plt.show()
```



Histogram of Population Data



```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd

# Loading the dataset
data = pd.read_csv('population.csv')

# Selecting the latest available year
latest_year = data.columns[-1]

# Sorting data for better visualization
data = data.sort_values(by=latest_year, ascending=False)

# Selecting top 10 countries with highest population
top_countries = data.head(10)

# Plotting bar chart of population data
plt.figure(figsize=(12, 6))
plt.bar(top_countries['Country Name'], top_countries[latest_year], color='skyblue', edgecolor='black')

plt.xlabel('Country')
plt.ylabel('Population')
plt.title(f'Population of Top 10 Countries in {latest_year}')
plt.xticks(rotation=45, ha='right')
plt.grid(axis='y')
plt.show()
```



Population of Top 10 Countries in 2022

