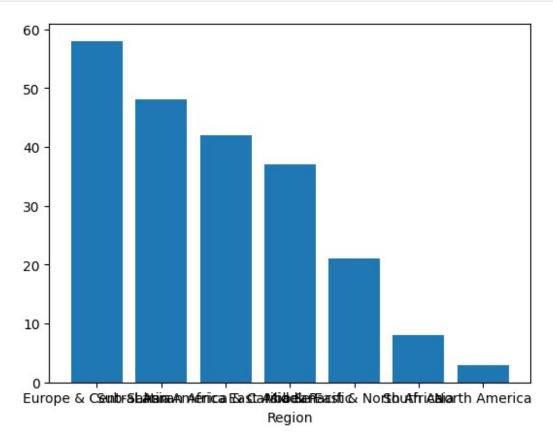
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
df = pd.read csv(r"C:\Users\acer\Desktop\
Metadata_Country_API_SP.POP.TOTL_DS2_en csv v2 511073.csv")
df
    Country Code
                                       Region
                                                        IncomeGroup \
                   Latin America & Caribbean
                                                        High income
             ABW
1
             AFE
                                          NaN
                                                                NaN
2
             AFG
                                   South Asia
                                                         Low income
3
             AFW
                                                                NaN
                                          NaN
4
                                               Lower middle income
             AG0
                           Sub-Saharan Africa
260
                        Europe & Central Asia
             XKX
                                               Upper middle income
261
             YEM Middle East & North Africa
                                                         Low income
                           Sub-Saharan Africa
                                               Upper middle income
262
             ZAF
263
             ZMB
                           Sub-Saharan Africa
                                               Lower middle income
                           Sub-Saharan Africa Lower middle income
264
             ZWE
                                           SpecialNotes \
0
                                                     NaN
1
     26 countries, stretching from the Red Sea in t...
2
     The reporting period for national accounts dat...
3
     22 countries, stretching from the westernmost ...
4
     The World Bank systematically assesses the app...
. .
260
                                                     NaN
261
     The World Bank systematically assesses the app...
     Fiscal year end: March 31; reporting period fo...
262
263
     National accounts data were rebased to reflect...
264
     National Accounts data are reported in Zimbabw...
                       TableName
                                   Unnamed: 5
0
                            Aruba
                                          NaN
1
     Africa Eastern and Southern
                                          NaN
2
                     Afghanistan
                                          NaN
3
      Africa Western and Central
                                          NaN
4
                           Angola
                                          NaN
                                          . . .
260
                           Kosovo
                                          NaN
261
                     Yemen, Rep.
                                          NaN
                                          NaN
262
                    South Africa
263
                           Zambia
                                          NaN
264
                         Zimbabwe
                                          NaN
[265 rows x 6 columns]
```

```
gender_counts = df['Region'].value_counts()
bar_width = 0.9
x=range(len(gender_counts.index))
plt.bar(gender_counts.index,gender_counts.values)
plt.xlabel('Region')
Text(0.5, 0, 'Region')
```



```
df.shape
(265, 6)
df.info
<bound method DataFrame.info of</pre>
                                     Country Code
                IncomeGroup \
Region
                   Latin America & Caribbean
0
             ABW
                                                        High income
1
             AFE
                                          NaN
                                                                NaN
2
             AFG
                                   South Asia
                                                         Low income
3
             AFW
                                          NaN
                                                                NaN
4
             AG0
                           Sub-Saharan Africa
                                               Lower middle income
260
             XKX
                        Europe & Central Asia
                                               Upper middle income
             YEM Middle East & North Africa
261
                                                         Low income
```

```
262
             ZAF
                           Sub-Saharan Africa
                                               Upper middle income
263
                                               Lower middle income
             ZMB
                           Sub-Saharan Africa
264
             ZWE
                           Sub-Saharan Africa
                                               Lower middle income
                                           SpecialNotes \
                                                     NaN
1
     26 countries, stretching from the Red Sea in t...
2
     The reporting period for national accounts dat...
     22 countries, stretching from the westernmost ...
3
4
     The World Bank systematically assesses the app...
260
                                                     NaN
261
     The World Bank systematically assesses the app...
262
     Fiscal year end: March 31; reporting period fo...
     National accounts data were rebased to reflect...
263
264
     National Accounts data are reported in Zimbabw...
                        TableName
                                   Unnamed: 5
0
                            Aruba
                                          NaN
1
     Africa Eastern and Southern
                                          NaN
2
                     Afghanistan
                                          NaN
      Africa Western and Central
3
                                          NaN
4
                           Angola
                                          NaN
                                          . . .
260
                           Kosovo
                                          NaN
261
                     Yemen, Rep.
                                          NaN
                    South Africa
262
                                          NaN
263
                           Zambia
                                          NaN
                         Zimbabwe
                                          NaN
264
[265 rows x 6 columns]>
df.isnull().sum()
Country Code
                  0
                 48
Region
IncomeGroup
                 49
SpecialNotes
                139
TableName
                  0
Unnamed: 5
                265
dtype: int64
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 265 entries, 0 to 264
Data columns (total 6 columns):
#
     Column
                   Non-Null Count
                                    Dtype
 0
     Country Code 265 non-null
                                    object
```

```
1 Region 217 non-null object
2 IncomeGroup 216 non-null object
3 SpecialNotes 126 non-null object
4 TableName 265 non-null object
5 Unnamed: 5 0 non-null float64
```

dtypes: float64(1), object(5)

memory usage: 12.6+ KB