```
[4]:  import pandas as pd
      import matplotlib.pyplot as plt
      import numpy as np

[6]:  df = pd.read_csv('worldpopulation.xls.csv')

[8]:  df
```

[8]:

	Data Source	World Development Indicators	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9	...	Unnamed: 58	Unnamed: 59	Unnamed: 60
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN
1	Last Updated Date	6/28/2024	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN
3	Country Name	Country Code	Indicator Name	Indicator Code	1960.0	1961.0	1962.0	1963.0	1964.0	1965.0	...	2014.0	2015.0	2016.0
4	Aruba	ABW	Population, total	SP.POP.TOTL	54608.0	55811.0	56682.0	57475.0	58178.0	58782.0	...	103594.0	104257.0	104874.0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
265	Kosovo	XKX	Population, total	SP.POP.TOTL	990150.0	1014211.0	1038618.0	1063175.0	1087700.0	1111812.0	...	1812771.0	1788196.0	1777557.0
266	Yemen, Rep.	YEM	Population, total	SP.POP.TOTL	5542459.0	5646668.0	5753386.0	5860197.0	5973803.0	6097298.0	...	27753304.0	28516545.0	29274002.0
267	South Africa	ZAF	Population, total	SP.POP.TOTL	16520441.0	16989464.0	17503133.0	18042215.0	18603097.0	19187194.0	...	54729551.0	55876504.0	56422274.0
268	Zambia	ZMB	Population, total	SP.POP.TOTL	3119430.0	3219451.0	3323427.0	3431381.0	3542764.0	3658024.0	...	15737793.0	16248230.0	16767761.0
269	Zimbabwe	ZWE	Population, total	SP.POP.TOTL	3806310.0	3925952.0	4049778.0	4177931.0	4310332.0	4447149.0	...	13855753.0	14154937.0	14452704.0

270 rows × 68 columns

```
[43]:  import pandas as pd
       import matplotlib.pyplot as plt

       df = pd.read_csv('worldpopulation.xls.csv', skiprows=4)
       print(df.head())
       df = df[['Country Name', '2020']]
       df.columns = ['Country', 'Population']
       df.dropna(inplace=True)
       df.sort_values(by='Population', ascending=False, inplace=True)
       top_10_countries = df.head(10)
       countries = top_10_countries['Country']
       populations = top_10_countries['Population']

       plt.figure(figsize=(12, 8))
       plt.bar(countries, populations, color='Green')
       plt.xlabel('Country')
       plt.ylabel('Population')
       plt.title('Top 10 Most Population Countries in 2020')
       plt.xticks(rotation=45)
       plt.tight_layout()
       plt.show()
```

```
         Country Name Country Code     Indicator Name Indicator Code  \
0                Aruba          ABW  Population, total    SP.POP.TOTL
1  Africa Eastern and Southern  AFE  Population, total    SP.POP.TOTL
2          Afghanistan          AFG  Population, total    SP.POP.TOTL
3  Africa Western and Central   AFW  Population, total    SP.POP.TOTL
4               Angola          AGO  Population, total    SP.POP.TOTL

          1960         1961         1962         1963         1964  \
0      54608.0      55811.0      56682.0      57475.0      58178.0
1  130692579.0  134169237.0  137835590.0  141630546.0  145605995.0
2    8622466.0    8790140.0    8969047.0    9157465.0    9355514.0
3   97256290.0   99314028.0  101445032.0  103667517.0  105959979.0
4    5357195.0    5441333.0    5521400.0    5599827.0    5673199.0

          1965  ...         2014         2015         2016         2017  \
0      58782.0  ...     103594.0     104257.0     104874.0     105439.0
1  149742351.0  ...  583651101.0  600008424.0  616377605.0  632746570.0
2    9565147.0  ...   32716210.0   33753499.0   34636207.0   35643418.0
3  108336203.0  ...  397855507.0  408690375.0  419778384.0  431138704.0
4    5736582.0  ...   27128337.0   28127721.0   29154746.0   30208628.0

          2018         2019         2020         2021         2022  \
0     105962.0     106442.0     106585.0     106537.0     106445.0
1  649757148.0  667242986.0  685112979.0  702977106.0  720859132.0
2   36686784.0   37769499.0   38972230.0   40099462.0   41128771.0
3  442646825.0  454306063.0  466189102.0  478185907.0  490330870.0
4   31273533.0   32353588.0   33428486.0   34503774.0   35588987.0

          2023
0     106277.0
1  739108306.0
2   42239854.0
3  502789511.0
4   36684202.0

[5 rows x 68 columns]
```


Top 10 Most Population Countries in 2020