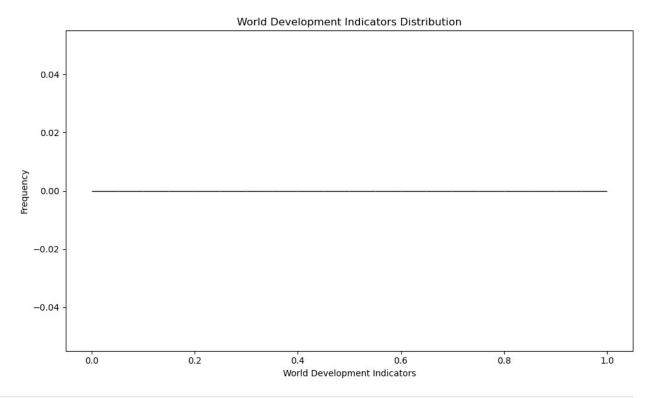
```
import pandas as pd
# Load the dataset
data = pd.read csv('task1.csv', delimiter=',', on bad lines='skip',
engine='python')
# Display column names to identify any hidden characters
print(data.columns.tolist())
['Data Source', 'World Development Indicators', 'Unnamed: 2']
# Try skipping the first few rows to locate actual data
data = pd.read csv('task1.csv', delimiter=',', skiprows=5,
on bad lines='skip', engine='python') # Adjust 'skiprows' as needed
print(data.head()) # Check if this loads the actual data
                        Aruba
                               ABW
                                    Population, total SP.POP.TOTL \
  Africa Eastern and Southern AFE
                                    Population, total
                                                       SP.POP.TOTL
1
                  Afghanistan AFG
                                    Population, total
                                                      SP.POP.TOTL
2
                                    Population, total SP.POP.TOTL
   Africa Western and Central AFW
3
                       Angola AGO
                                    Population, total SP.POP.TOTL
4
                      Albania ALB
                                    Population, total SP.POP.TOTL
         54608
                     55811
                                  56682
                                               57475
                                                            58178
                                                                  \
   130692579.0
               134169237.0
                            137835590.0
                                         141630546.0
                                                      145605995.0
    8622466.0
1
                 8790140.0
                              8969047.0
                                           9157465.0
                                                        9355514.0
2
   97256290.0
                99314028.0
                            101445032.0
                                         103667517.0
                                                      105959979.0
3
    5357195.0
                 5441333.0
                              5521400.0
                                           5599827.0
                                                        5673199.0
4
    1608800.0
                 1659800.0
                              1711319.0
                                           1762621.0
                                                        1814135.0
                         104257
                                      104874
                                                   105439
        58782
105962 \
  149742351.0
                ... 600008424.0 616377605.0 632746570.0
649757148.0
                ... 33753499.0 34636207.0 35643418.0
    9565147.0
36686784.0
   108336203.0 ...
                    408690375.0 419778384.0 431138704.0
442646825.0
    5736582.0 ... 28127721.0 29154746.0
                                               30208628.0
31273533.0
    1864791.0 ... 2880703.0 2876101.0
                                                2873457.0
2866376.0
       106442
                    106585
                                 106537
                                              106445
                                                           106277 \
   667242986.0
               685112979.0
                                         720859132.0
                                                      739108306.0
0
                            702977106.0
1
   37769499.0
                38972230.0
                             40099462.0
                                          41128771.0
                                                       42239854.0
2
   454306063.0
               466189102.0
                            478185907.0
                                        490330870.0
                                                      502789511.0
3
   32353588.0
                33428486.0
                             34503774.0
                                          35588987.0
                                                       36684202.0
4
    2854191.0
                 2837849.0
                              2811666.0
                                           2777689.0
                                                        2745972.0
   Unnamed: 68
```

```
0
           NaN
1
           NaN
2
           NaN
3
           NaN
4
           NaN
[5 rows x 69 columns]
import pandas as pd
import matplotlib.pyplot as plt
# Display column names to verify the available columns
print(data.columns)
# Replace 'year_column' with an actual year column name from the
output of the previous line.
# Check for any additional whitespaces or unexpected characters if
'54608' does not appear as expected.
year column = '54608' # Replace with the exact column name if
different
# Verify if the year column exists after inspecting the column names
if year column in data.columns:
    # Drop NaN values and select relevant data for plotting
    filtered_data = data[['Data Source', year_column]].dropna()
    filtered_data.columns = ['Region', 'Population'] # Rename for
clarity
    # Create a bar chart for population distribution for the chosen
year
    plt.figure(figsize=(12, 8))
    plt.bar(filtered data['Region'], filtered data['Population'],
color='skyblue')
    plt.title(f'Population Distribution in {year column}')
    plt.xlabel('Region/Country')
    plt.ylabel('Population')
    plt.xticks(rotation=90)
    plt.tight layout()
    plt.show()
else:
    print(f"Column '{year column}' not found in data columns.")
Index(['Data Source', 'World Development Indicators', 'Unnamed: 2'],
dtype='object')
Column '54608' not found in data columns.
import pandas as pd
import matplotlib.pyplot as plt
```

```
# Assuming 'data' is your DataFrame, if it's not, load your dataset
first
# Example: data = pd.read csv('your file.csv')
# Check the columns in your dataset
print(data.columns)
# Replace 'Gender' with the actual column name for gender in your
dataset
gender_column = 'Gender' # Replace with the exact column name for
gender
# Verify if the 'Gender' column exists after inspecting the column
if gender column in data.columns:
    # Drop NaN values and count the occurrences of each category
    gender counts = data[gender column].dropna().value counts()
    # Create a bar chart for gender distribution
    plt.figure(figsize=(10, 6))
    gender counts.plot(kind='bar', color='skyblue', edgecolor='black')
    plt.title('Gender Distribution')
    plt.xlabel('Gender')
    plt.ylabel('Frequency')
    plt.xticks(rotation=0)
    plt.tight layout()
    plt.show()
else:
    print(f"Column '{gender column}' not found in data columns.")
Index(['Data Source', 'World Development Indicators', 'Unnamed: 2'],
dtype='object')
Column 'Gender' not found in data columns.
import pandas as pd
import matplotlib.pyplot as plt
# Assuming 'data' is your DataFrame
# Example: data = pd.read csv('your file.csv')
# Display the first few rows to inspect the data
print(data.head())
# Replace 'World Development Indicators' with the correct column name
for numeric data
column to plot = 'World Development Indicators' # Replace with actual
numeric column
# Verify if the column exists and it's numeric
```

```
if column to plot in data.columns:
    # Ensure the column has numeric data (if not, convert it)
    filtered_data = pd.to_numeric(data[column_to_plot],
errors='coerce').dropna() # Convert to numeric and drop NaNs
    # Create a histogram
    plt.figure(figsize=(10, 6))
    plt.hist(filtered data, bins=20, color='skyblue',
edgecolor='black')
    plt.title(f'{column to plot} Distribution')
    plt.xlabel(column to plot)
    plt.ylabel('Frequency')
    plt.tight_layout()
    plt.show()
else:
    print(f"Column '{column to plot}' not found in data columns.")
         Data Source World Development Indicators
                                                   Unnamed: 2
  Last Updated Date
                                       2024-11-13
                                                           NaN
```



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

print(data.head())
# Replace 'Data Source' with the actual column name for categories
```

```
column_to_plot = 'Data Source' # Replace with the actual categorical
column name
# Verify if the column exists
if column to plot in data.columns:
    # Count the occurrences of each category
    category_counts = data[column_to_plot].dropna().value_counts()
    # Create a bar chart for category distribution
    plt.figure(figsize=(10, 6))
    category_counts.plot(kind='bar', color='skyblue',
edgecolor='black')
    plt.title(f'{column_to_plot} Distribution')
    plt.xlabel(column to plot)
    plt.ylabel('Frequency')
    plt.xticks(rotation=90) # Rotate the x-axis labels if needed
    plt.tight layout()
    plt.show()
else:
    print(f"Column '{column to plot}' not found in data columns.")
         Data Source World Development Indicators
                                                   Unnamed: 2
  Last Updated Date
                                       2024-11-13
                                                          NaN
```

