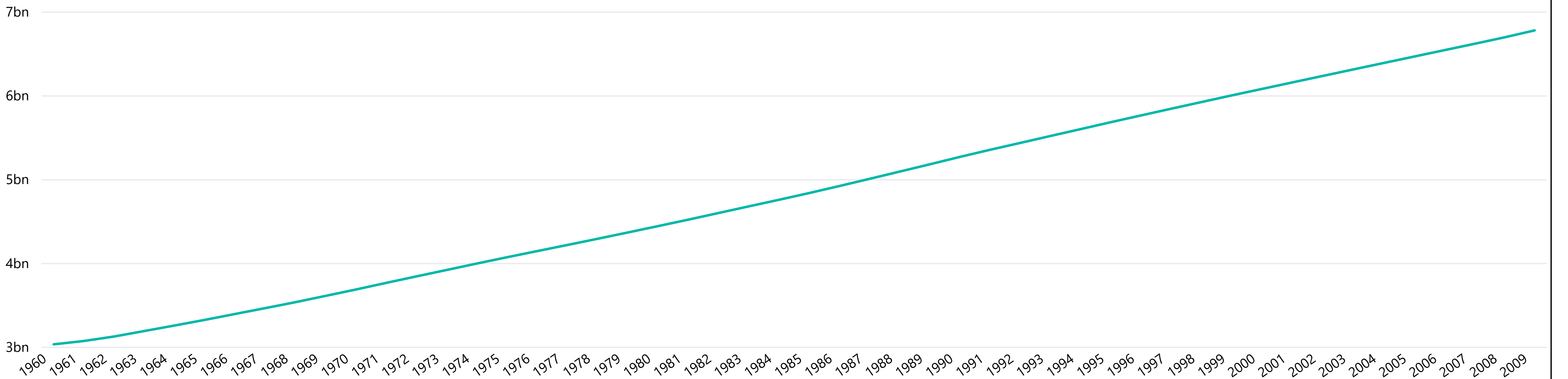
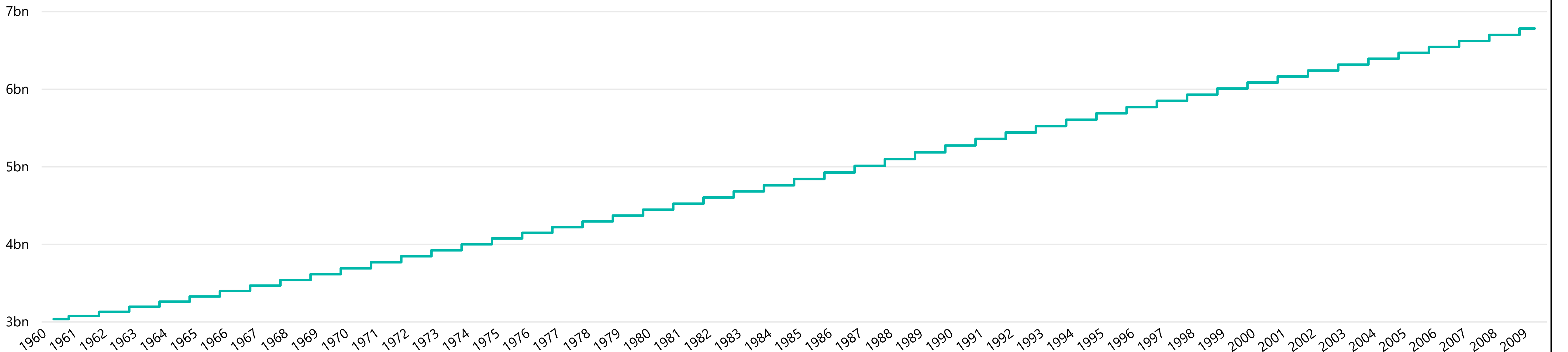
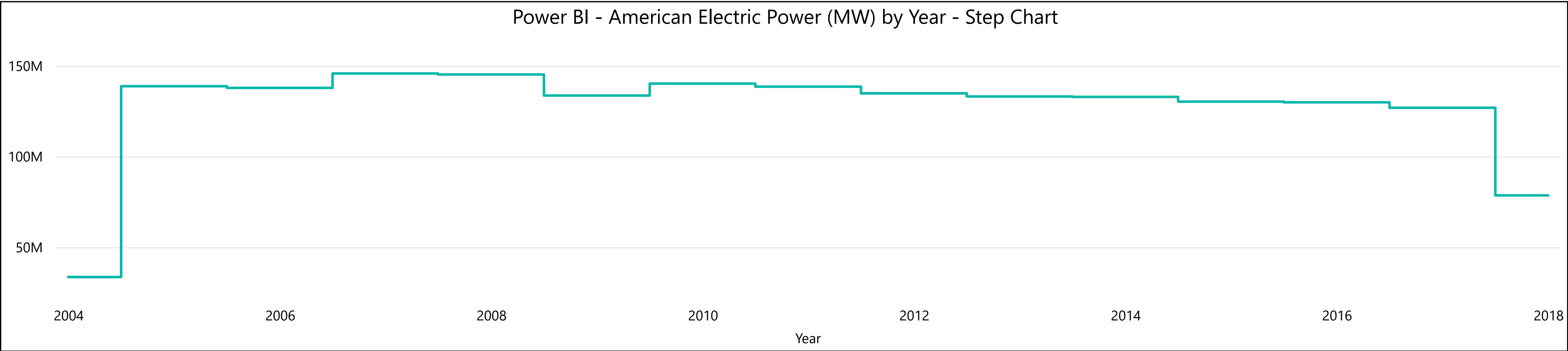
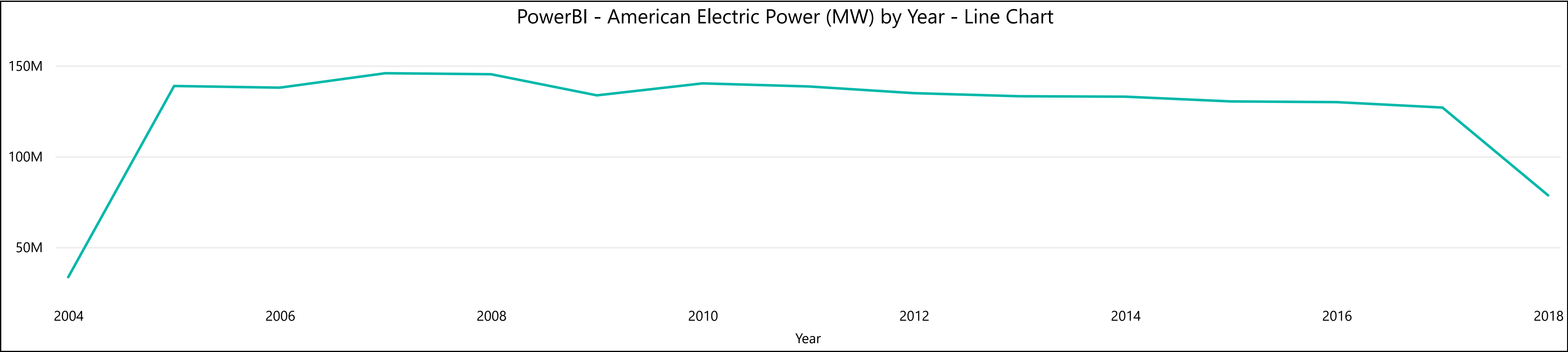


PowerBI - World Population Growth - Line Chart



PowerBI - World Population Growth - Step Chart





Author: Anjani Bonda

Assignment: Week3_4 - 2.2 Visualization Tools

Date: Jan 06 2023

```
In [1]: # Import libraries
import csv
#import xlrd
import pandas as pd
import matplotlib.pyplot as plt
from datetime import datetime as dt
```

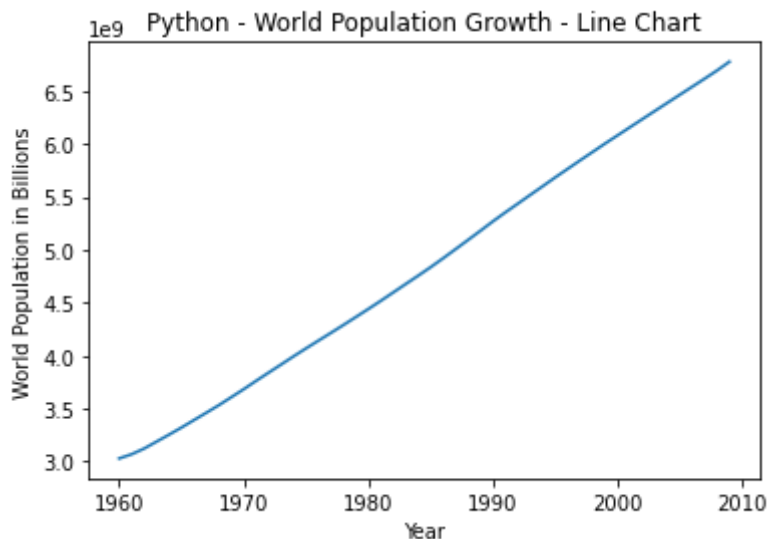
```
In [2]: # Read world population data
fileData1 = 'ex2-2/world-population.xlsm'
population = pd.read_excel(fileData1)
print(population.head())
```

	Year	Population
0	1960	3028654024
1	1961	3068356747
2	1962	3121963107
3	1963	3187471383
4	1964	3253112403

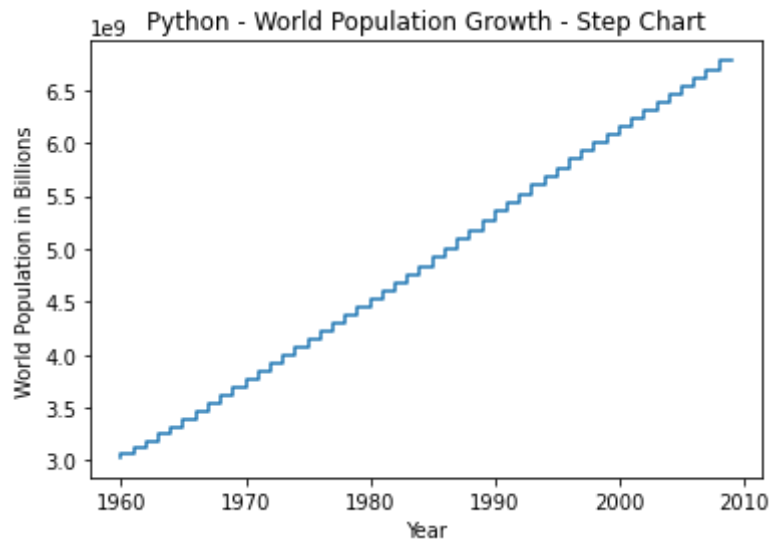
World Population data

Line and Step Charts

```
In [9]: X = population['Year']
Y = population['Population']
plt.title('Python - World Population Growth - Line Chart')
plt.plot(X, Y)
plt.xlabel("Year")
plt.ylabel("World Population in Billions")
plt.show()
```



```
In [10]: plt.title('Python - World Population Growth - Step Chart')
plt.step(X, Y)
plt.xlabel("Year")
plt.ylabel("World Population in Billions")
plt.show()
```



In []:

Assignment 2.2

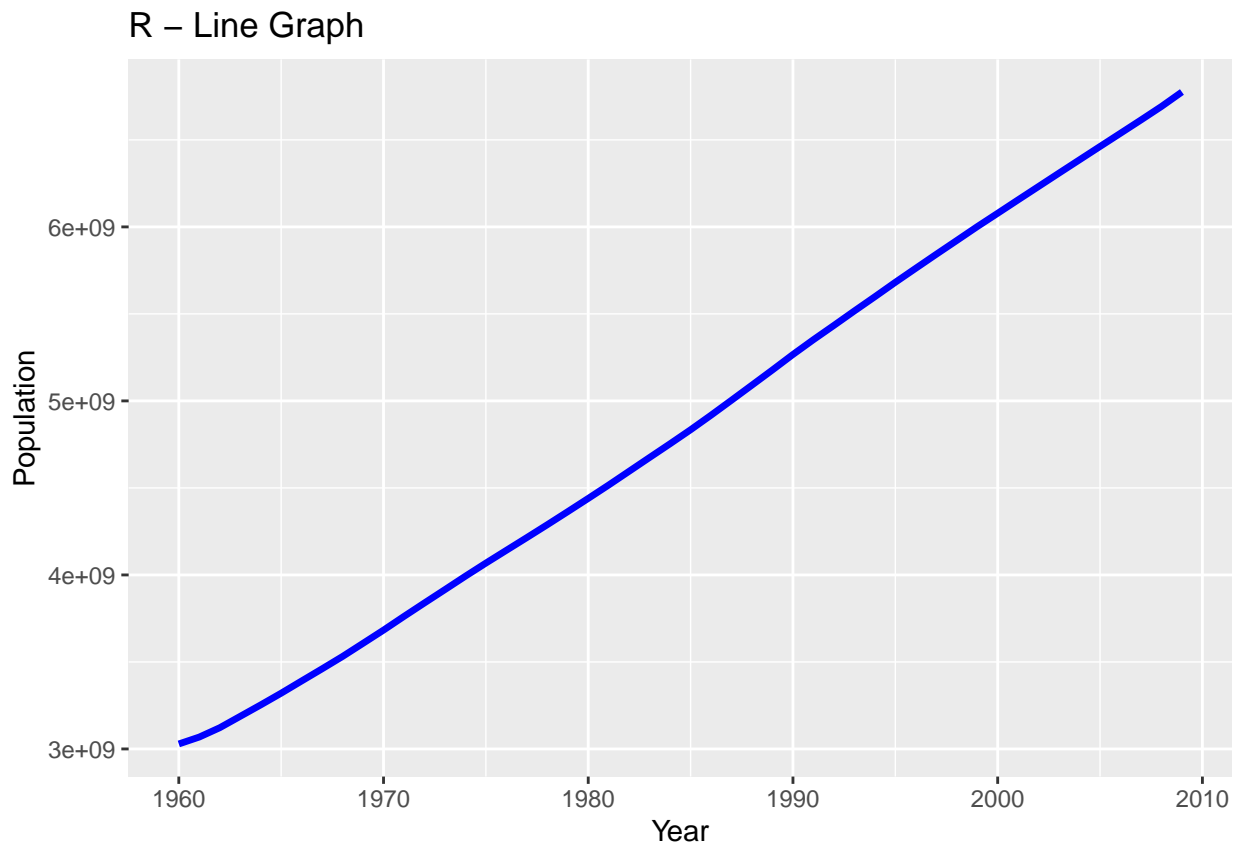
Anjani Bonda

01/06/2023

These two weeks we are going to be focused on line charts and step charts using various tools to create these visualizations. You must consolidate all the charts into ONE document with each chart labeled with the type of chart and technology - for example: Python - Bar Chart.

```
##   Year Population
## 1 1960 3028654024
## 2 1961 3068356747
## 3 1962 3121963107
## 4 1963 3187471383
## 5 1964 3253112403
## 6 1965 3320396924
```

Line Graph



Step Graph

