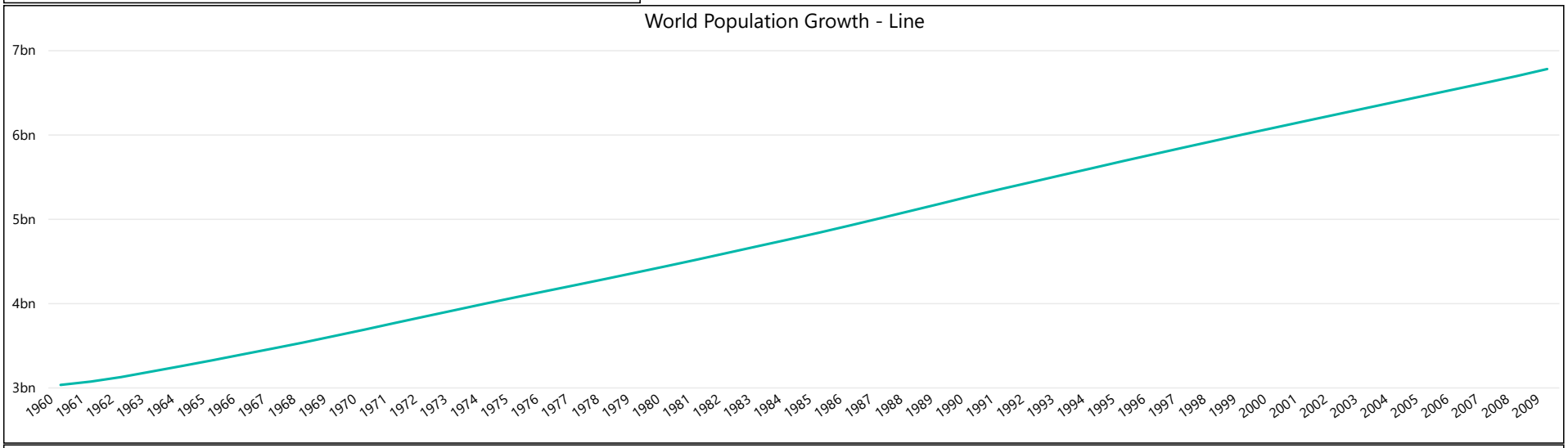
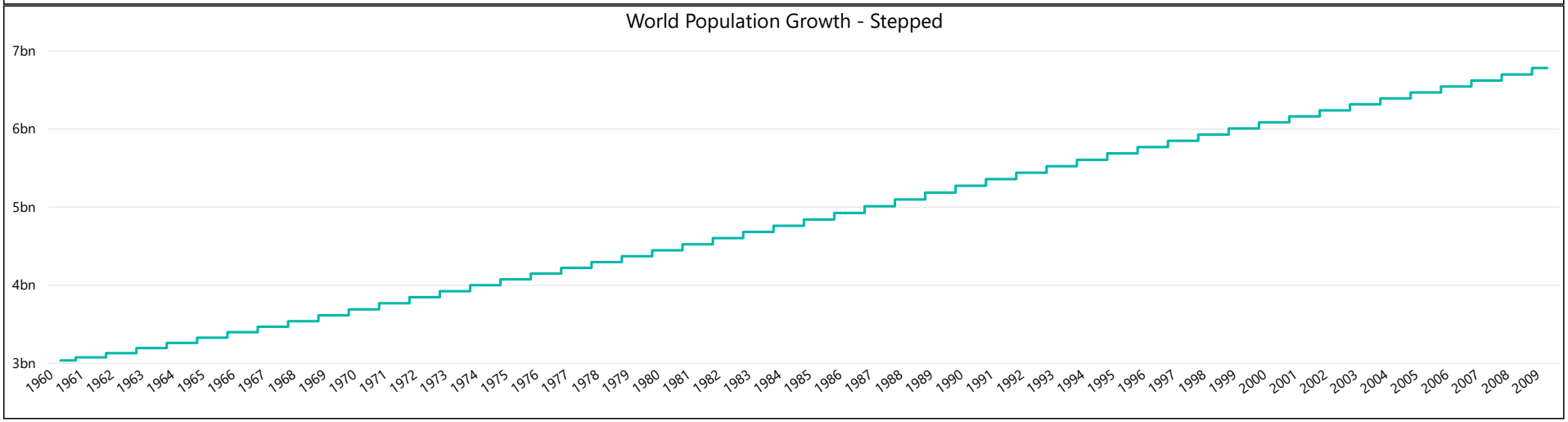
Data Source: Classwork





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.

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

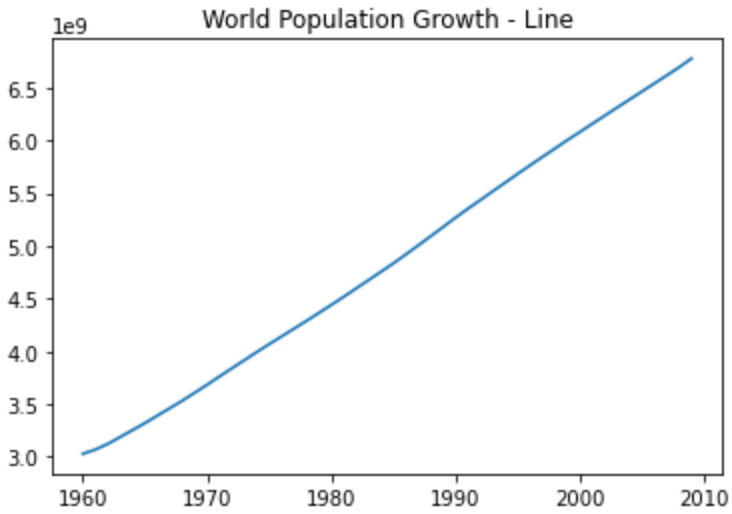
In [2]:
```
# Read world population data
fileData1 = 'ex2-2/world-population.xlsm'
population = pd.read_excel(fileData1)


print(population.head())
```

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

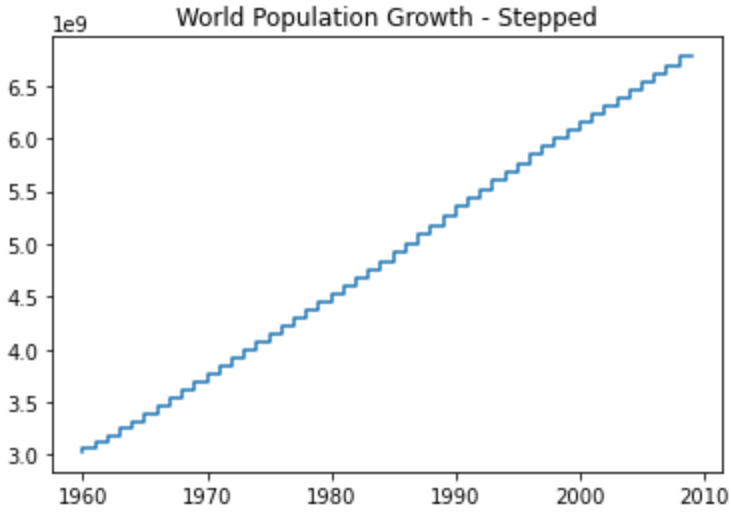
World Population data

Line and Step graph

In [3]:
```
X = population['Year']
Y = population['Population']
plt.title('World Population Growth - Line')
plt.plot(X, Y)
plt.show()
```



In [4]:
```
plt.title('World Population Growth - Stepped')
plt.step(X, Y)
plt.show()
```


World Population Growth - Stepped
1e9
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
1960
1970
1980
1990
2000
2010

In [ ]:

Assignment 2.2

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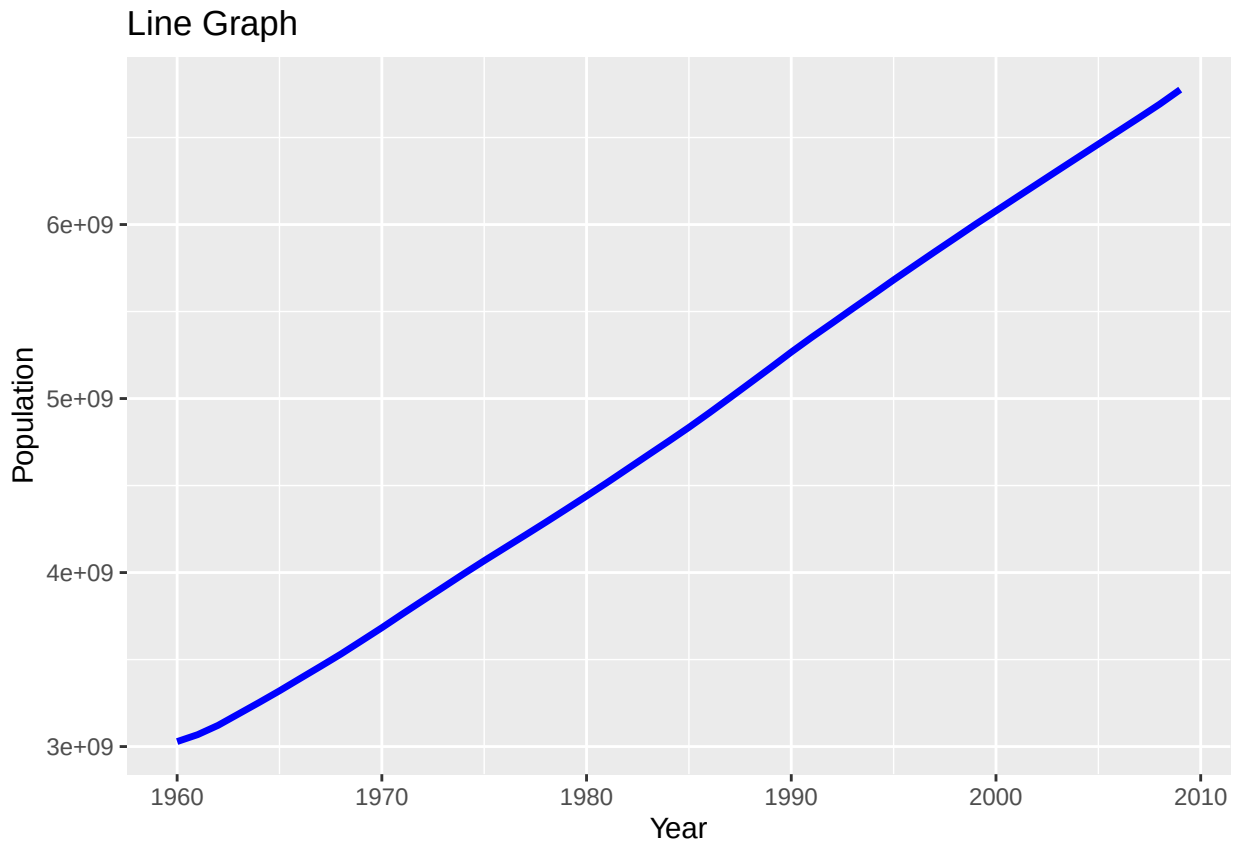
04/06/2022

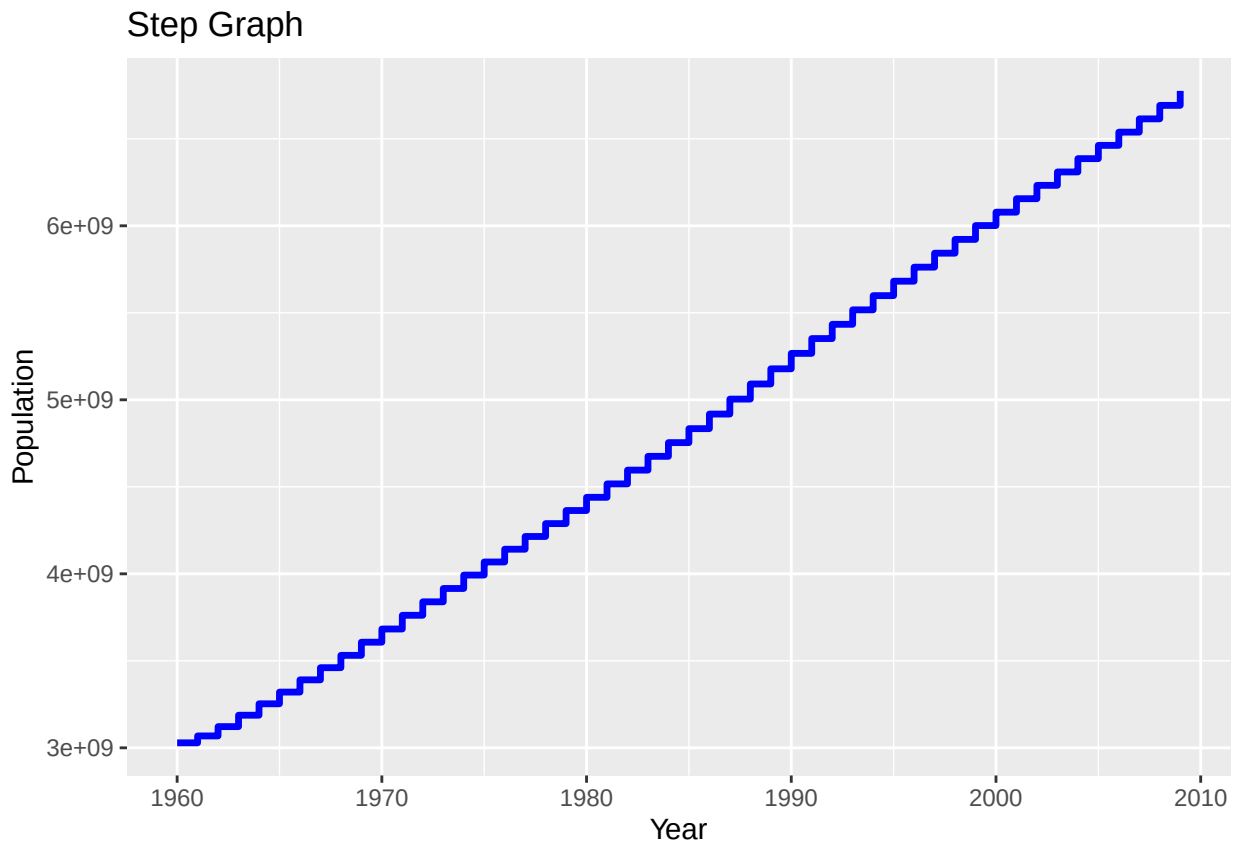
These two weeks we are going to be focused on line charts and step charts using various tools to create these visualizations. You must consolidate all the charts into ONE document with each chart labeled with the type of chart and technology - for example: Python - Bar Chart.

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

Line Graph



Step Graph


Step Graph
Population
6e+09
5e+09
4e+09
3e+09
1960
1970
1980
1990
2000
2010
Year