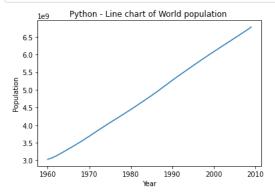
Python Excercises

```
In [2]: import pandas as pd
import matplotlib.pyplot as plt
```

```
In [3]: df = pd.read_excel('world-population.xlsm')
```

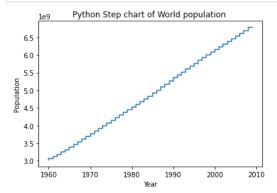
Python - Line Chart

```
In [5]: plt.plot(df['Year'], df['Population'])
    plt.title('Python - Line chart of World population ')
    plt.xlabel('Year')
    plt.ylabel('Population')
    plt.show()
```



Python - Step Chart

```
In [6]: plt.step(df['Year'], df['Population'])
    plt.title('Python Step chart of World population ')
    plt.xlabel('Year')
    plt.ylabel('Population')
    plt.show()
```

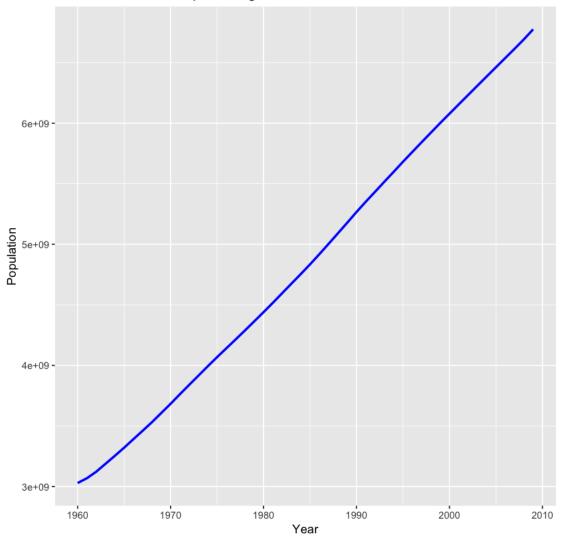


R Excercises

R - Line Chart

In [8]: ::geom_line(linetype='solid' ,color='blue', size=1.0) + ggplot2::ggtitle(label='Line chart in R for Population growth')

Line chart in R for Population growth



In [11]: tion)) + ggplot2::geom_step(linetype='solid', color='blue', size=1.0) + ggplot2::ggtitle(label='Step chart in R for Popu

Step chart in R for Population growth

