In [1]:
```
#load libraries
import pandas as pd
import matplotlib.pyplot as plt
```

In [2]:
```
#import data as dataframe
data = pd.read_excel('world-population.xlsm')
```

In [3]:
```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 50 entries, 0 to 49
Data columns (total 2 columns):
 #   Column      Non-Null Count  Dtype
---  ------      --------------  -----
 0   Year        50 non-null     int64
 1   Population  50 non-null     int64
dtypes: int64(2)
memory usage: 928.0 bytes
```

In [4]:
```
data.head()
```

Out[4]:

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

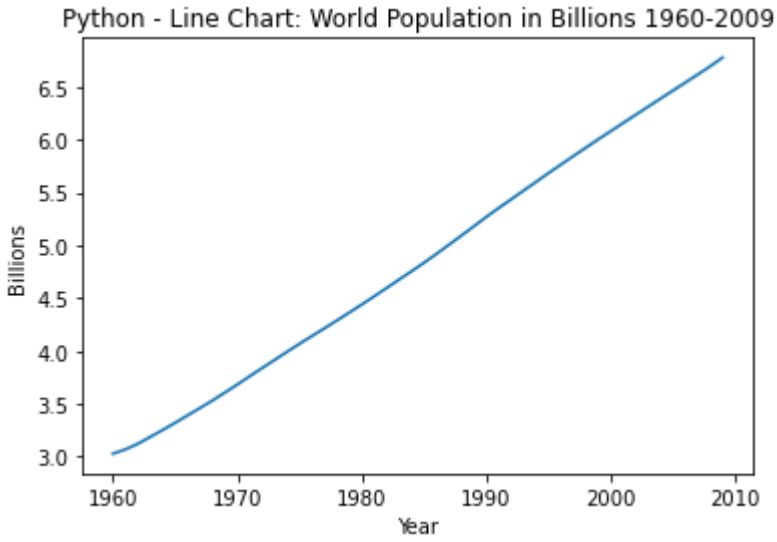
In [5]:
```
#create column for billions
data['PopinB'] = data['Population'] / 1000000000
```

Line Chart

In [6]:
```
x = data['Year']
y = data['PopinB']

plt.plot(x,y)
plt.xlabel("Year")  # X-axis label
plt.ylabel("Billions")  # Y-axis label
plt.title("Python - Line Chart: World Population in Billions 1960-2009")  # title
```

Out[6]:
```
Text(0.5, 1.0, 'Python - Line Chart: World Population in Billions 1960-2009')
```



Step Chart

In [7]:
```
x = data['Year']
y = data['PopinB']

plt.step(x,y)
plt.xlabel("Year")  # X-axis label
plt.ylabel("Billions")  # Y-axis label
plt.title("Python - Step Chart: World Population in Billions 1960-2009")  # title
```

Out[7]:
```
Text(0.5, 1.0, 'Python - Step Chart: World Population in Billions 1960-2009')
```