

In [1]:

```
!pip install matplotlib
```

Collecting matplotlib

Downloading matplotlib-3.4.3-cp39-cp39-win_amd64.whl (7.1 MB)

Requirement already satisfied: numpy>=1.16 in d:\curso-data-science\venv\lib\site-packages (from matplotlib) (1.21.2)

Collecting kiwisolver>=1.0.1

Downloading kiwisolver-1.3.2-cp39-cp39-win_amd64.whl (52 kB)

Collecting pillow>=6.2.0

Downloading Pillow-8.3.1-1-cp39-cp39-win_amd64.whl (3.2 MB)

Requirement already satisfied: python-dateutil>=2.7 in d:\curso-data-science\venv\lib\site-packages (from matplotlib) (2.8.2)

Requirement already satisfied: pyparsing>=2.2.1 in d:\curso-data-science\venv\lib\site-packages (from matplotlib) (2.4.7)

Collecting cycler>=0.10

Using cached cycler-0.10.0-py2.py3-none-any.whl (6.5 kB)

Requirement already satisfied: six in d:\curso-data-science\venv\lib\site-packages (from cycler>=0.10->matplotlib) (1.16.0)

Installing collected packages: pillow, kiwisolver, cycler, matplotlib

Successfully installed cycler-0.10.0 kiwisolver-1.3.2 matplotlib-3.4.3 pillow-8.3.1

WARNING: You are using pip version 21.2.3; however, version 21.2.4 is available.

You should consider upgrading via the 'D:\curso-data-science\venv\Scripts\python.exe -m pip install --upgrade pip' command.

In [2]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline
```

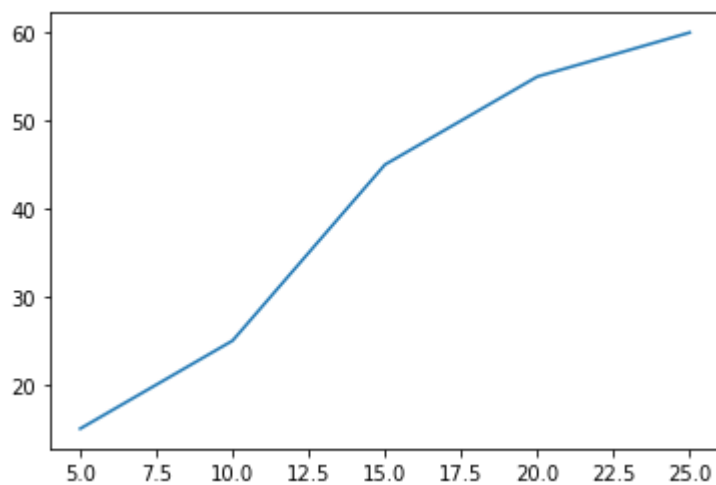
Primeiro Plot

In [6]:

```
X = [5,10,15,20,25]
Y = [15,25,45,55,60]
```

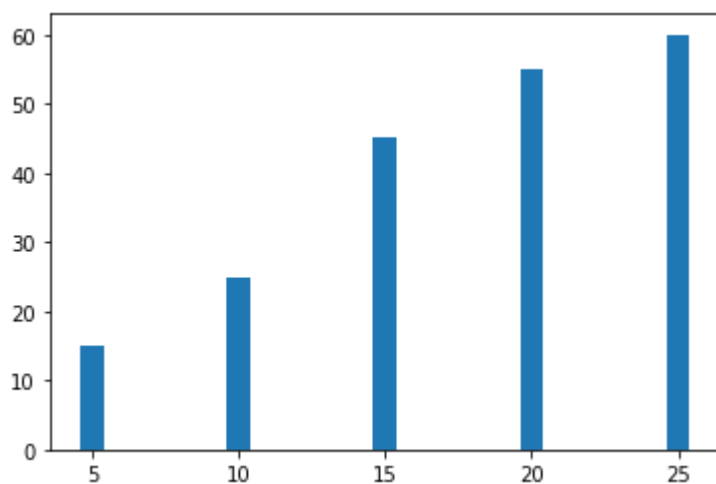
In [7]:

```
plt.plot(X,Y)  
plt.show()
```



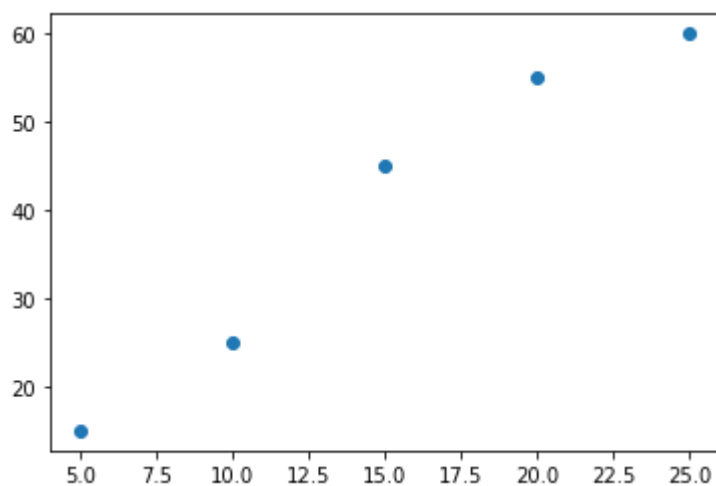
In [8]:

```
plt.bar(X,Y)  
plt.show()
```



In [9]:

```
plt.scatter(X,Y)  
plt.show()
```

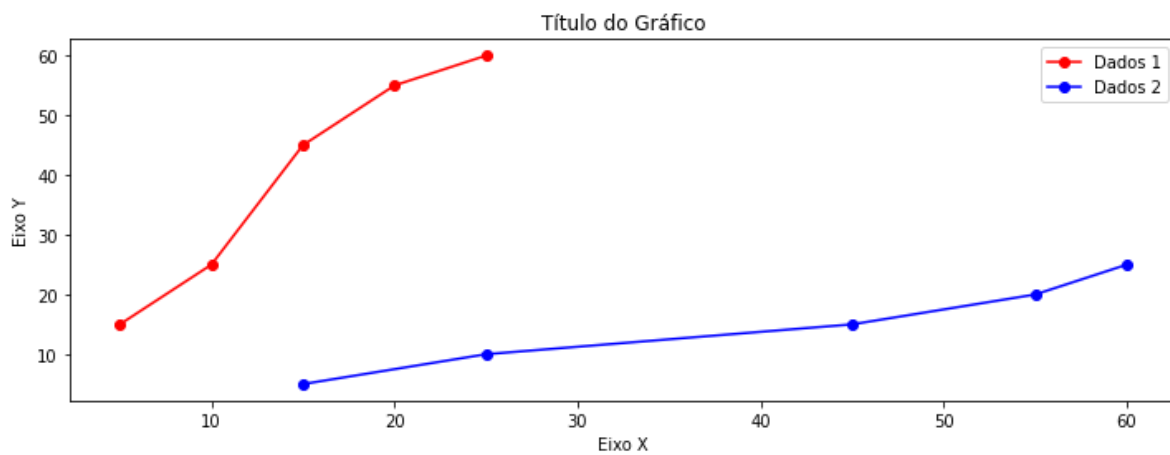


In [26]:

```
X = [5,10,15,20,25]
y = [15, 25, 45, 55, 60]
fig,axs = plt.subplots(figsize=(12,4))
axs.set_xlabel('Eixo X')
axs.set_ylabel('Eixo Y')
axs.set_title('Título do Gráfico')
axs.plot(X,Y,"ro-",label="Dados 1")
axs.plot(Y,X,"bo-",label="Dados 2")
axs.legend()
```

Out[26]:

<matplotlib.legend.Legend at 0x27c1dca2820>



In []: