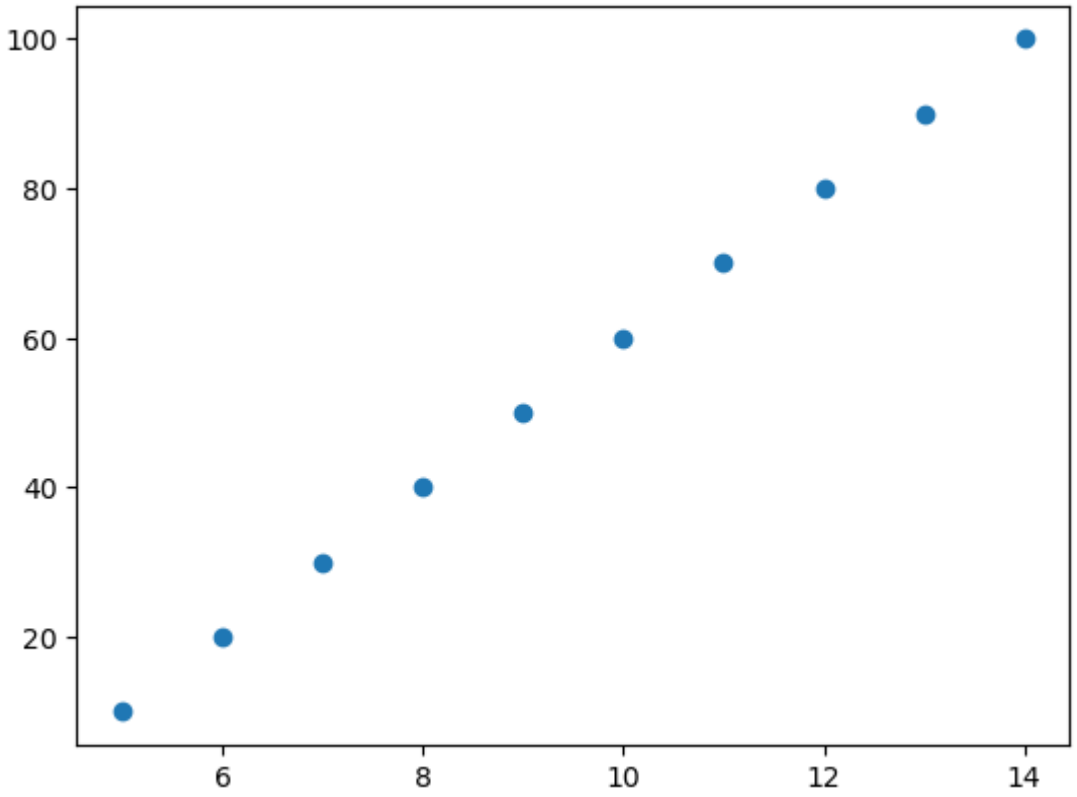
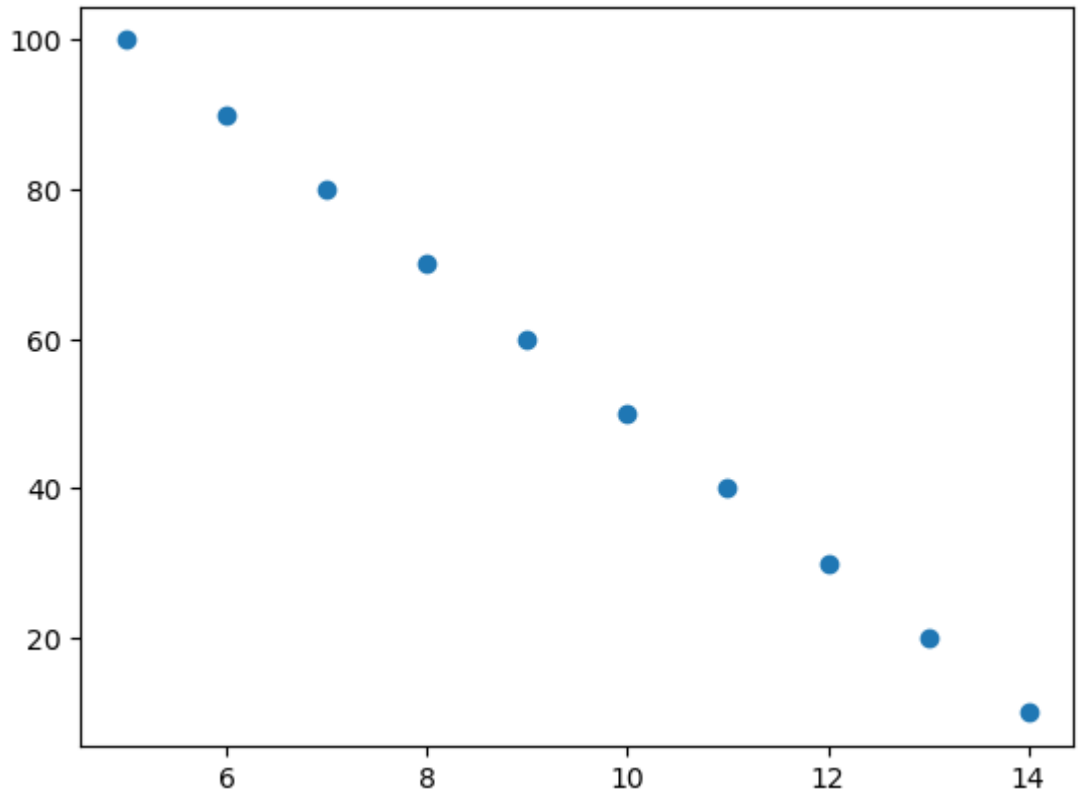
In [17]:
```
#Pearson's Correlation-Similarity
import numpy as np
import matplotlib.pyplot as plt
x=np.arange(5,15)
y=np.array([10,20,30,40,50,60,70,80,90,100])
np.corrcoef(x,y)
plt.scatter(x,y)
plt.show()
```



In [16]:
```
#Pearson's Correlation-DisSimilarity
import numpy as np
import matplotlib.pyplot as plt
x=np.arange(5,15)
y=np.array([100,90,80,70,60,50,40,30,20,10])
np.corrcoef(x,y)
plt.scatter(x,y)
plt.show()
```



In [18]:
```
#using scipy
from scipy import stats
x=[5,6,7,8,9,10,11,12,13,14]
y=[10,15,20,25,30,35,40,45,50,55]
stats.pearsonr(x,y)
```

Out[18]:
```
PearsonRResult(statistic=1.0, pvalue=0.0)
```