

```
import numpy

import matplotlib.pyplot as plt

from scipy import stats

x = [5,7,8,7,2,17,2,9,4,11,12,9,6]

y = [99,86,87,88,111,86,103,87,94,78,77,85,86]

#stats.linregress(x, y) #method returns some important key values of Linear Regression as seen below

slope, intercept, r, p, std_err = stats.linregress(x, y)

def myfunc(x): # python's anonymous function...

    return slope * x + intercept

mymodel = list(map(myfunc, x))

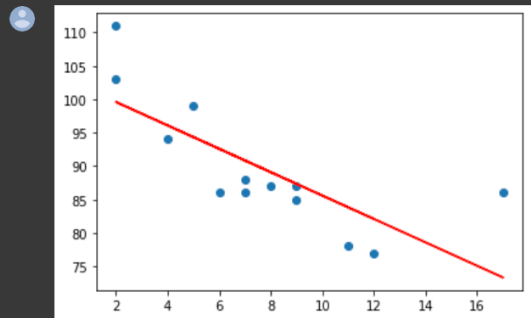
plt.scatter(x, y) #Draw the original scatter plot

plt.plot(x, mymodel, 'r') # Draw the line of linear regression:

stats.linregress(x, y)

plt.show() #Display the diagram:

print(r) # this value to indicate strength of the correlation. (0-1 +ve relationship Or 0-1 -ve relationship)
```



-0.758591524376155