**6.How to check normality of data using Shapiro-Wilk test in python?**

**Objective:**

* To check given data set is normally distributed or not using python.

**Process:**

* Shapiro Test

The Shapiro-Wilk normality test is reputadely more well suited to smaller data sets.

**Input:**

* Data set

**Output:**

* Probability value of given sample data set.

**Source code:**

#import requires libraries

import pandas as pd

import scipy

from scipy import stats

#sample data set

data={'salary':[100,200,500,300,600,100],

'age':[20,21,26,22,23,24],

'rating':[2.3,4.3,5.0,2.3,4.5,3.5]}

#load the data to data frame

df=pd.DataFrame(data)

#assigning x variable

x=(df['salary'])

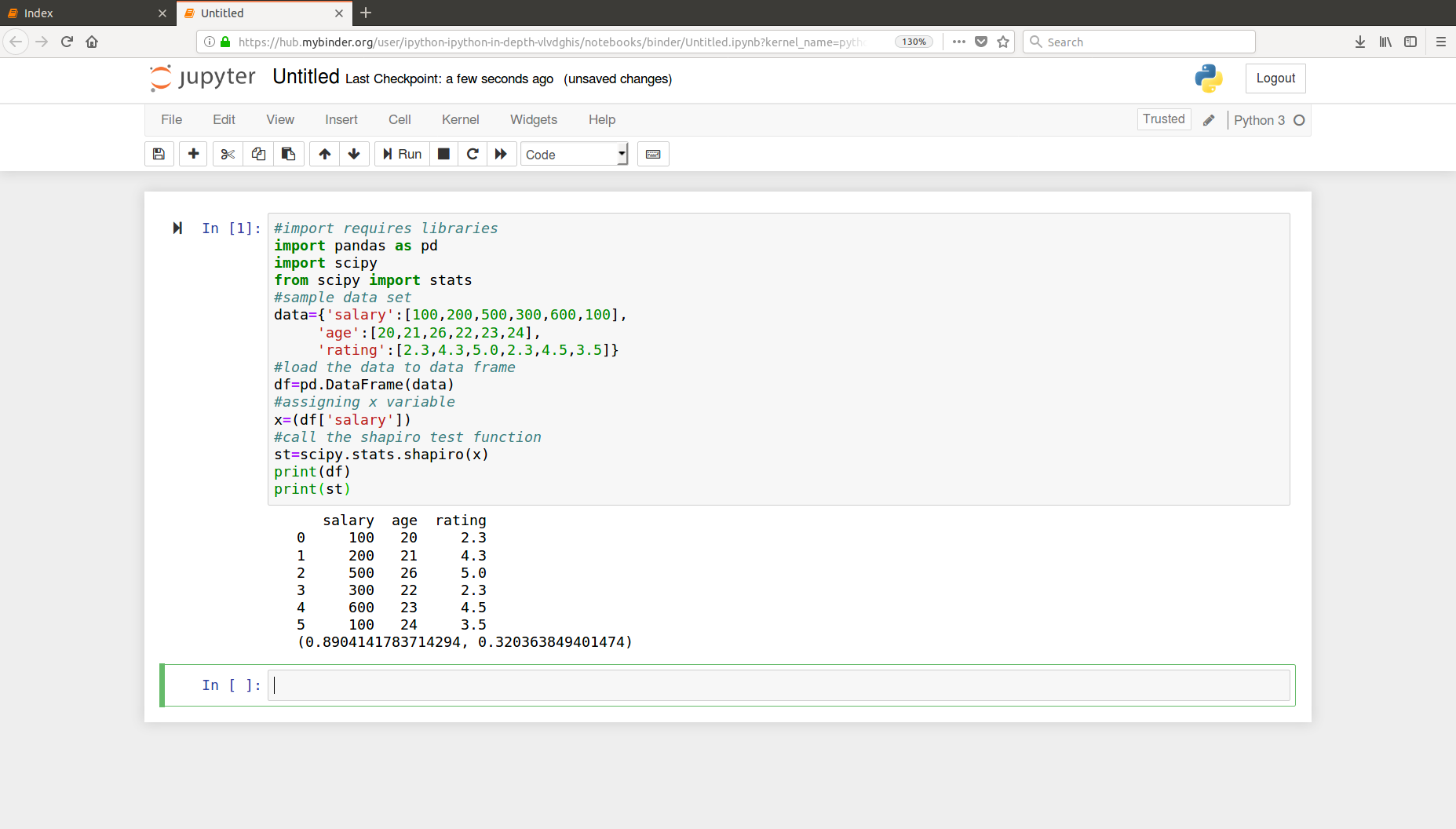
#call the shapiro test function

st=scipy.stats.shapiro(x)

print(df)

print(st)

**Screen shots:**

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