**9.How to check normality of data using Anderson Darling test for a variable in python?**

**Objective:**

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

**Process:**

* Anderson-Darling Test
* To check given data set is normally distributed or not

using Anderson-Darling test.

**Input:**

* Data set**.**

**Output:**

* Probability and critical values of array for the given data set.

**Source code:**

#import library files

import pandas as pd

import scipy

from scipy import stats

data={'Name':['Tom','James','Ricky','Vin','sathish',

'Smith','Jack','sathish','mano','suresh'], 'salary':[100,200,300,400,500,400,300,200,100,50],

'age':[25,26,25,23,30,29,23,23,25,25], 'rating':[4,3.24,2.5,2.25,2,2.25,2.5,2.75,3.2,4.2]}

#create data frame and bind the data

df=pd.DataFrame(data)

x=(df['salary'])

#call the anderson darling test method

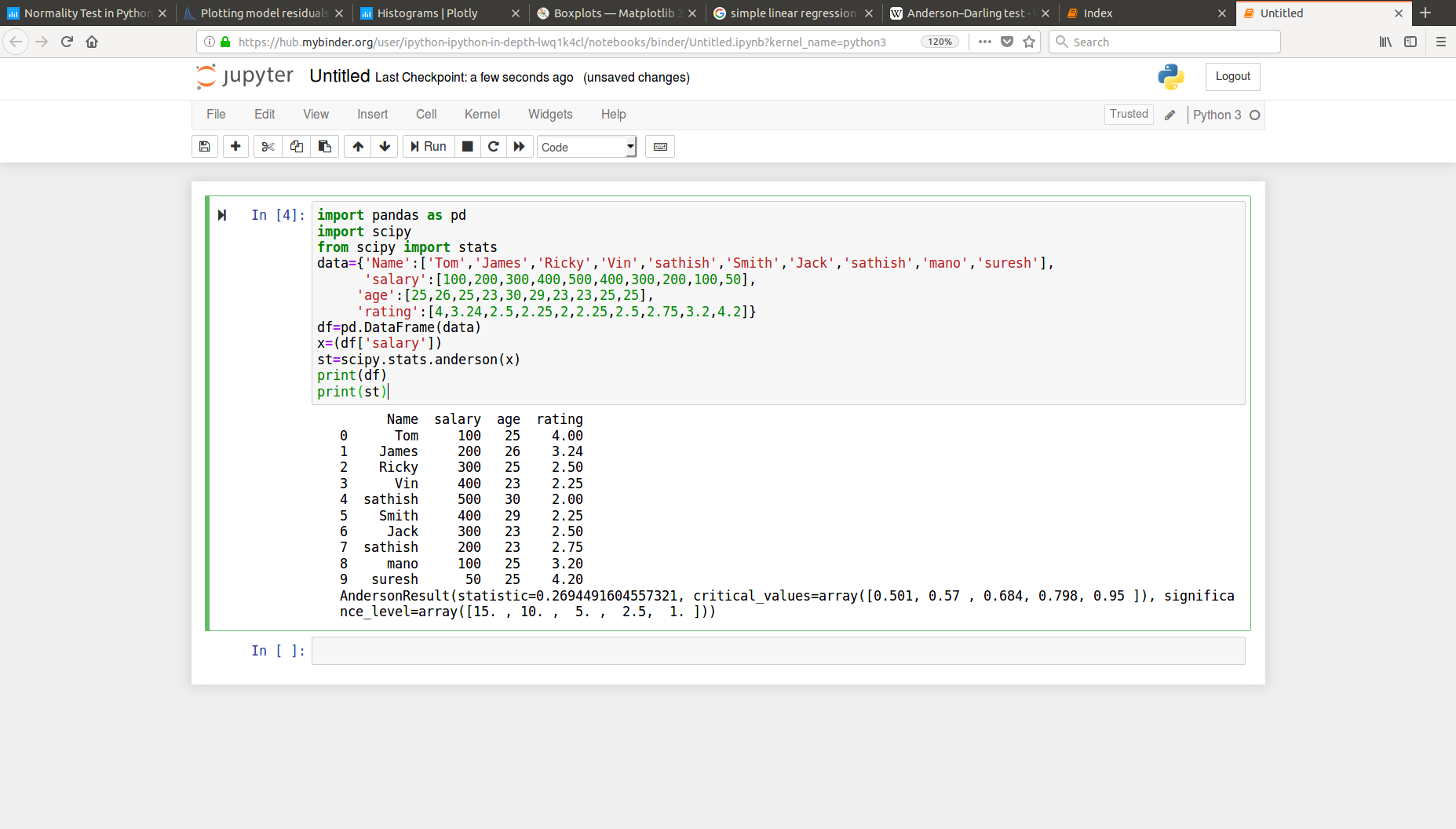
st=scipy.stats.anderson(x)

print(df)

#print the anderson darling test results.

print(st)

**Screen shot:**

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