程序代写代做 CS编程辅导



1 Importing [2]: !pip install sklearn

```
Requirement already satisfied: sklearn in c:\users\rluck\anaconda3\lib\site-
    packages (0.0)
    Requirement already satisfied: scikit-learn in
    c:\users\rluck\anaconda3\lib\site-packages (from sklearn) (0.24.1)
    Requirement already satisfied: numpy>=1.13. in
    c:\users\rluck\ana a 681i & 11 m e ats Pf o sectle rn X a 1 m m te 10
    Requirement already satisfied: scipy>=0.19.1 in
    c:\users\rluck\anaconda3\lib\site-packages (from scikit-learn->sklearn) (1.6.2)
    Requirement alread satisfied: threadpoolctl>= 70.0 in
    c:\users\rluck\anaconda3\fib\site packages (from scikit learn
    Requirement already satisfied: joblib>=0.11 in
    c:\users\rluck\anaconda3\lib\site-packages (from scikit-learn->sklearn) (1.0.1)
[3]: #importing package
    import pandas as pd
    import numpy as np
    import statsmodels.formula.api
                                    utores.com
     import matplotlib.pyplot as plt
    from sklearn import linear_model
```

2 Reading Excel file saved in hard drive

```
[4]: #reading the file

df = pd.read_excel("C:\\Users\\rluck\\OneDrive\\fisher.xlsx", usecols

→=["P","R"])

df.head()
```

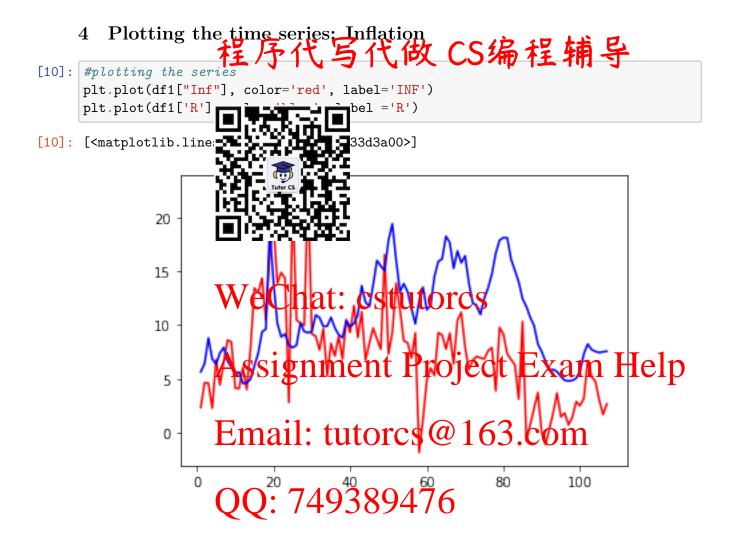
```
[4]: P R
0 17.0 5.90
1 17.1 5.65
2 17.3 6.42
3 17.5 8.80
```

4 17.6 6.85

程序代写代做 CS编程辅导

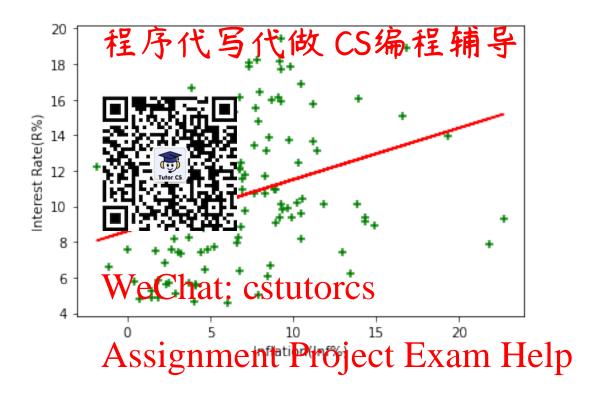
3 Calculating annual inflation from quarterly CPI

```
[5]: #computing the in
    df['Inf'] = 400*n
                                   '].shift(1)).dropna()
    df.head()
[5]:
         Ρ
              R
     17.0 5.90
    1 17.1 5.65
    2 17.3 6.42
                 4.651215
    3 17.5 8.80
                4.597752
                <sup>2.</sup> WeChat: cstutorcs
    4 17.6 6.85
[6]: df.tail()
[6]:
    103 116.2 7.73 Assignment Project Exam Help
    104 117.6 7.54
                   4.790476
    105 118.5 7.44 3.049570
    106 119.0 7.51 E 684213 il: tutores @ 163.com
[7]: #dropping the N/A values
    df1 = df.dropna(subset=) Inf/149389476
[8]: df1.head()
                https://tutorcs.com
[8]:
      17.1 5.65
    1
    2 17.3 6.42 4.651215
    3 17.5 8.80 4.597752
    4 17.6 6.85
                2.279208
    5 17.9 6.37
                6.760724
[9]: df1.tail()
[9]:
           Ρ
                R
                       Inf
    103 116.2 7.73 5.197128
    104 117.6 7.54
                   4.790476
    105 118.5 7.44
                   3.049570
    106 119.0 7.51
                   1.684213
    107 119.8 7.56
                   2.680077
```



5 Linear Regression://tutorcs.com

[12]: [<matplotlib.lines.Line2D at 0x22fe3b4cb20>]



[13]: Email: tutores@163.com X = df1[['Inf']] X = sm.add_constant(X) y= df1['R'] #OLS model model = sm.OLS(y,X).fit() predictions =model.predict(X) Q = model.summary Ottps://tutores.com print(Q)

OLS Regression Results

Dep. Variable:			R	R-sqı	uared:		0.110
Model:			OLS	Adj.	R-squared:		0.102
Method:		Least Squares		F-statistic:			13.01
Date:		Fri, 18 Jun 2	021	Prob	(F-statistic)	:	0.000475
Time:		22:31	:48	Log-I	Likelihood:		-293.17
No. Observations:			107	AIC:			590.3
Df Residuals:			105	BIC:			595.7
Df Model:			1				
Covariance Type:		nonrob	ust				
=======================================	====	========	=====				=======
	coef	std err		t	P> t	[0.025	0.975]
const 8.	6008	0.691	12	2.445	0.000	7.231	9.971



- (c) The beta of 0.2898 is statistically significant, given the p-value is less than 5%. The intercept (constant in the above) is 8.690, which indicates the real interest rate.
- (d) The ACF and PAGF charts how strong auto-correlations for both interest rates and inflation rates, since they are catside the thands. As per FAGF, the first-order autocorrelation coefficient is significant, thus explains that R_{t-2} is not directly correlated with R_t but impacts R_t through R_{t-1}

Assignment Project Exam Help
Correlogram: ACF and PACF

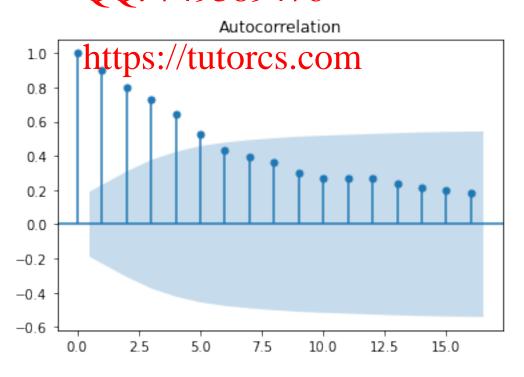
#running ACF and Email: tutores @ 163.com

sm.graphics.tsa.plot_acf(dta.values.squeeze(),lags=16)

sm.graphics.tsa.plot_pacf(dta.values.squeeze(),lags=16)

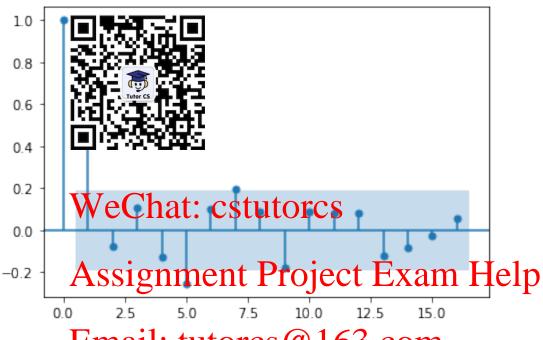
plt.show()

OO: 749389476



程序代写代做 CS编程辅导





Email: tutorcs@163.com

```
[15]: # Generating the Cartes 749389476

ta= df1.R

r,q,p = sm.tsa.acf(dta.values.squeeze(), qstat=True)

data = np.c_[range(1,41), r[1:], q, p]

table = pd.DataFrame(data_columns=[Cartes_C."AC", """ "Prob(>Q)"])

print (table.set_index(Plage))
```

	AC	Q	Prob(>Q)
lag			
1.0	0.902000	89.519458	3.036373e-21
2.0	0.800714	160.735161	1.249693e-35
3.0	0.727757	220.130163	1.881836e-47
4.0	0.643173	266.971371	1.434100e-56
5.0	0.522747	298.217241	2.420630e-62
6.0	0.432185	319.786128	4.692303e-66
7.0	0.390572	337.577638	5.612705e-69
8.0	0.359094	352.768802	2.322012e-71
9.0	0.296765	363.249933	9.357349e-73
10.0	0.266010	371.758078	9.546965e-74
11.0	0.269571	380.586555	8.045736e-75
12.0	0.271768	389.653956	5.861576e-76
13.0	0.239723	396.784131	1.068394e-76
14.0	0.213190	402.483940	3.799963e-77

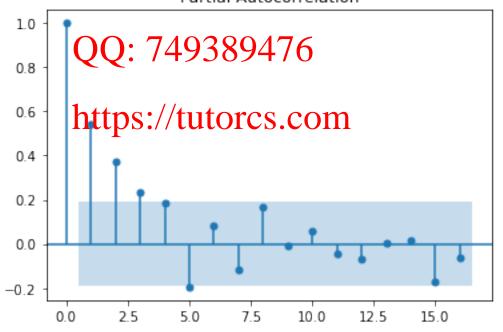
```
做 CS编程辅导
     16.0 0.184015
                    413.882666
     17.0 0.121160
     18.0 0.069831
                    414.521694
                               8.538552e-77
     19.0 0.061388
     20.0 0.037563
     21.0 -0.016528
     22.0 -0.049924
     23.0 -0.066728
     24.0 -0.082528
     25.0 -0.116581
     26.0 -0.126028
     27.0 -0.097497
                               1.130317e-72
                    423.646894
                               2.999114e-72
     28.0 -0.077050
                    425 7 461 L 1881471e-72 tutores
     29.0 -0.075916
     30.0 -0.071108
     31.0 -0.052355
                    425.695155
                               6.669846e-71
     32.0 -0.063438
                    426.320964
                               1.867262e-70
                                            Project Exam Help
     33.0 -0.116202
                    428/.449132
                    432.810623 5
     34.0 -0.165224
     35.0 -0.195566
                    439.005942 2.546551e-71
     36.0 -0.236616 448.202801 1.301903e-72
                    46 Empail: 16 tentores @ 163.com
     37.0 -0.287126
     38.0 -0.323681
                    479.647790
                               8.151842e-78
     39.0 -0.334471
                    498.835308 4.101115e-81
     40.0 -0.351261
                    520-313409 7 121062e-85
    C:\Users\rluck\anacondat\lib\site-packages\statsmodels\tsa\stattools.py:657:
     FutureWarning: The default number of lags is changing from 40 tomin(int(10 *
     np.log10(nobs)), nobs - 1) after 0.12is released. Set the number of lags to an
    integer to silenchthografutorcs.com
       warnings.warn(
     C:\Users\rluck\anaconda3\lib\site-packages\statsmodels\tsa\stattools.py:667:
     FutureWarning: fft=True will become the default after the release of the 0.12
     release of statsmodels. To suppress this warning, explicitly set fft=False.
       warnings.warn(
[16]: #running ACF and PACF for Inflation rates
     dt= df1.Inf
     sm.graphics.tsa.plot_acf(dt.values.squeeze(),lags=16)
     sm.graphics.tsa.plot_pacf(dt.values.squeeze(),lags=16)
     plt.show()
```

15.0 0.201682

407,640445



Email: tutorcs@163.com



```
[17]: # Generating the Q table
     dt= df1.Inf 程序代写代做 CS编程辅导
r,q,p = sm.tsa.acf(dt.values.squeeze(), qstat=True)
     data = np.c_[range(1,41), r[1:], q, p]
     table = pd.DataFr
                                        ['lag', "AC", "Q", "Prob(>Q)"])
     print (table.set
                AC
     lag
     1.0
           0.538668
     2.0
          0.546611
     3.0
          0.520620
     4.0
          0.512728
                                3.980674e-26
     5.0
          0.320958
                    137.056889
                                7.552935e-28
     6.0
          0.395231
                    155.094995
                               √6.469263e-31
                                natio Castutores
     7.0
          0.263380
     8.0
          0.335635
                    176.456691
                                5.707403e-34
          0.236423
                    183.108875
                                1.136013e-34
     9.0
                                ghing Project Exam Help
     10.0 0.276055
                    192,271705
     11.0 0.190578
                    196.684218
     12.0 0.204584
                    201.822653
                                1.371277e-36
     13.0 0.144076
                    204.398177
                                1.706136e-36
                    <sup>20</sup>Estavail of the terres @ 163.com
     14.0 0.177849
     15.0 0.024400
     16.0 0.057629
                    208.865988
                                1.272269e-35
                                4,236566e-35
     17.0 0.041227
                    209.086241
     18.0 -0.013514
                    200.1101/3
                                4.918207e-34
                    209.234125
     19.0 -0.030582
     20.0 0.145808
                    212.084192
                                4.509795e-34
     21.0 0.013762
                    212.109878
                                1.477257e-33
                    21 Nations 4/546 Notes Com
     22.0 0.028119
     23.0 0.070134
                    212.901328
                                1.054903e-32
     24.0 0.108008
                    214.540562
                                1.562105e-32
     25.0 -0.003713
                    214.542523
                                4.739521e-32
     26.0 0.069558
                    215.239186
                                1.034074e-31
     27.0 0.068827
                    215.929804 2.224307e-31
     28.0 0.084139
                    216.974961
                               4.026885e-31
                    217.000565
     29.0 0.013086
                               1.124209e-30
     30.0 0.054102
                    217.443909
                                2.569765e-30
     31.0 0.039647
                    217.685134 6.315696e-30
     32.0 0.090422
                    218.956577 9.792370e-30
     33.0 0.018652
                    219.011410
                                2.534653e-29
     34.0 0.045297
                    219.339228
                               5.748685e-29
     35.0 -0.028321
                    219.469153
                                1.399130e-28
     36.0 -0.032441
                               3.297061e-28
                    219.642032
     37.0 -0.074630
                    220.570003
                                5.576472e-28
     38.0 -0.112505
                    222.709467
                                5.615226e-28
     39.0 -0.127265
                    225.487401 4.303657e-28
```



WeChat: cstutorcs

Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476

https://tutorcs.com