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# Part 1
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import pylab
import statsmodels.formula.api as smf
from pandas datareader import data
# Part 2
all_data = \{\}
for ticker in ['AAL', 'ALK', 'WTI']:
  all_data[ticker] = data.DataReader(ticker, 'yahoo', '2014-06-01', '2016-06-13')
print(all_data['WTI'].head())
print(all_data['AAL'].head())
print(all_data['ALK'].head())
price = pd.DataFrame({tic: data['Adj Close'] for tic, data in all_data.items()})
print(price.head(5))
# Part 4: Calculate Return
daily_return = price.pct_change(1)
print(daily_return.head(5))
plt.scatter(daily_return['AAL'], daily_return['WTI'])
plt.show()
# Part 6: Scatter plot
plt.scatter(daily_return['ALK'], daily_return['WTI'])
plt.show()
# Part 7: Using linear regression
# A Calculate the Intercept and coefficient for the linear regression
# between AAL and WTI
result = smf.ols(formula="WTI ~ AAL", data=price).fit()
```

print (resprint (result.params) ult.params)

A Calculate the Intercept and coefficient for the linear regression # between ALK and WTI

result = smf.ols(formula="WTI ~ ALK", data=price).fit()