```
1 import quandl
 2 import numpy as np
 3 from sklearn.naive bayes import GaussianNB
 4 from sklearn.model_selection import train_test_split
 5 from sklearn import preprocessing
 6 from sklearn.metrics import accuracy_score, confusion_matrix
 1 df = quandl.get('WIKI/AMZN')
 2 df.head()
\Box
                                                                                Adj.
                                                                                           Adj.
                                                              Ex-
                                                                   Split
              Open
                     High
                              Low Close
                                               Volume
                                                        Dividend Ratio
                                                                                Open
                                                                                           High
      Date
     1997-
                                            1225000.0
             22.38 23.75
                            20.50
                                    20.75
                                                              0.0
                                                                      1.0
                                                                           1.865000
                                                                                      1.979167
                                                                                                 1.70
     05-16
     1997-
             20.50
                    21.25
                            19.50
                                    20.50
                                             508900.0
                                                              0.0
                                                                      1.0
                                                                           1.708333
                                                                                      1.770833
                                                                                                  1.62
     05-19
     1997-
             20.75
                    21.00
                                                                          1.729167
                            19.63
                                    19.63
                                             455600.0
                                                              0.0
                                                                      1.0
                                                                                      1.750000
                                                                                                 1.63
     05-20
 1 df['Profit'] = np.where(df['Open']<df['Close'], 1, 0)</pre>
 2 df = df.drop(columns=['Ex-Dividend', 'Split Ratio'])
 1 X = df.drop(columns=['Profit'])
 1 y = df['Profit']
 1 X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3)
 1 model = GaussianNB()
 2 model.fit(X_train, y_train)
 3 y_pred = model.predict(X_test)
 print('Accuracy Score: `',model.score(X_test, y_test))
print('Confusion Matrix', confusion_matrix(y_pred, y_test))
    Accuracy Score: 0.5085714285714286
    Confusion Matrix [[660 642]
      [132 141]]
```