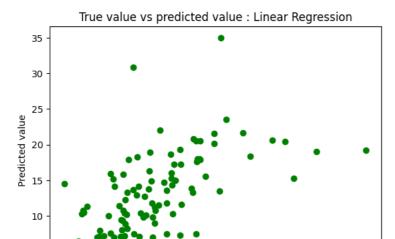
```
import numpy as np
import pandas as pd
d=pd.read csv('Boston-house-price-data.csv')
d.head()
                                                                     TAX PTRATIO
                                                                                        B LSTAT MEDV
            CRIM
                   ZN INDUS CHAS
                                      NOX
                                              RM
                                                  AGE
                                                          DIS RAD
      0 0.00632 18.0
                         2.31
                                 0 0.538 6.575 65.2 4.0900
                                                                   296.0
                                                                              15.3 396.90
                                                                                             4.98
                                                                                                  24.0
      1 0.02731
                         7.07
                                 0 0.469 6.421 78.9 4.9671
                                                                 2 242.0
                                                                              17.8 396.90
                                                                                                  21.6
                  0.0
                                                                                             9.14
      2 0.02729
                  0.0
                         7.07
                                 0 0.469 7.185 61.1 4.9671
                                                                 2 242.0
                                                                              17.8 392.83
                                                                                             4.03
                                                                                                  34.7
      3 0.03237
                  0.0
                         2.18
                                 0 0.458 6.998 45.8 6.0622
                                                                 3 222.0
                                                                              18.7 394.63
                                                                                             2.94
                                                                                                  33.4
      4 0.06905
                  0.0
                         2.18
                                 0 0.458 7.147 54.2 6.0622
                                                                 3 222.0
                                                                              18.7 396.90
                                                                                             5.33 36.2
new_ds=d[['CRIM','ZN','INDUS','CHAS','AGE','DIS','RAD','TAX','PTRATIO','B','LSTAT']]
new_ds.shape
     (506, 11)
x=new_ds.iloc[:,:-1].values
y=new_ds.iloc[:,-1].values
from sklearn.model_selection import train_test_split
xtrain, xtest, ytrain, ytest = train_test_split(x, y, test_size =0.2,
                                                      random_state = 0)
print("xtrain shape : ", xtrain.shape)
print("xtest shape : ", xtest.shape)
print("ytrain shape : ", ytrain.shape)
print("ytest shape : ", ytest.shape)
     xtrain shape : (404, 10)
     xtest shape : (102, 10)
     ytrain shape : (404,)
     ytest shape: (102,)
from \ sklearn.linear\_model \ import \ LinearRegression
regressor = LinearRegression()
regressor.fit(xtrain, ytrain)
y_pred = regressor.predict(xtest)
import matplotlib.pyplot as plt
plt.scatter(ytest, y_pred, c = 'green')
plt.xlabel("Price: in $1000's")
plt.ylabel("Predicted value")
plt.title("True value vs predicted value : Linear Regression")
plt.show()
```



from sklearn.metrics import mean_squared_error, mean_absolute_error
mse = mean_squared_error(ytest, y_pred)
mae = mean_absolute_error(ytest,y_pred)
print("Mean Square Error : ", mse)
print("Mean Absolute Error : ", mae)

Mean Square Error : 28.70878219455333
Mean Absolute Error : 3.6392107599548726

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