import pandas as pd

from sklearn.model\_selection import train\_test\_split

from sklearn.linear\_model import LinearRegression

import matplotlib.pyplot as plt

from sklearn import metrics

df=pd.read\_csv("weight-height.csv")

df

x=df.iloc[:,1:2]

y=df.iloc[:,2]

x\_train, x\_test, y\_train, y\_test = train\_test\_split(x,y,test\_size=0.25)

Reg = LinearRegression()

Reg.fit(x\_train,y\_train)

Y\_predict = Reg.predict(x\_test)

Y\_predict.shape

print(Reg.coef\_)

print(Reg.intercept\_)

plt.scatter(x\_test,y\_test,color='green')

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print('Mean Square Error',metrics.mean\_squared\_error(y\_test, Y\_predict))

print('Mean Absolute Error',metrics.mean\_absolute\_error(y\_test, Y\_predict))

rsquare = Reg.score(x\_train, y\_train)

rsquare

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plt.scatter(x\_test,y\_test,label='actual',color='green')

plt.plot(x\_test,Y\_predict,label='predicted',color='red')

plt.legend()