Pract4

```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error

df = pd.read_csv("BostonHousing.csv")
df

df.columns
x = df[['crim', 'zn', 'indus', 'chas', 'nox', 'rm', 'age', 'dis', 'rad', 'tax',
'ptratio', 'b', 'lstat']]

x

y = df["medv"]
y

#75% - training data set
#25% - testing data set
x_train, x_test, y_train, y_test = train_test_split(x,y,test_size=0.25,
random_state=42)
model = LinearRegression()
model.fit(x_train,y_train)
#not able to see output bcoz it os class
y_pred = model.predict(x_test)
y_pred
#testing values for y
model.score(x_train,y_train)
model.score(x_test,y_test)

mean_squared_error(y_test,y_pred) //error ka diff leke mean

import numpy as np
np.sqrt(mean_squared_error(y_test,y_pred))
result = pd.DataFrame({'Actual':y_test, 'Producted':y_pred})
result
```