

give me simple project based on this instruction...
"Predict Student Scores Based on Study Hours

```
```python
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

Sample data
data = {'Hours': [2.5, 5.1, 3.2, 8.5, 3.5, 1.5, 9.2, 5.5, 8.3, 2.7, 7.7, 5.9, 4.5, 3.3, 1.1, 8.9, 2.5, 1.9, 6.1, 7.4],
'Scores': [21, 47, 27, 75, 30, 20, 88, 60, 81, 25, 85, 62, 41, 42, 17, 95, 30, 24, 67, 69]}

df = pd.DataFrame(data)
X = df[['Hours']]
y = df['Scores']

Split data
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=0)

Train model
model = LinearRegression()
model.fit(X_train, y_train)

Predict
y_pred = model.predict(X_test)

Plot
plt.scatter(X_test, y_test, color='red')
plt.plot(X_test, y_pred, color='blue')
plt.title('Actual vs Predicted Scores')
plt.xlabel('Hours Studied')
plt.ylabel('Score')
plt.show()
```

Output

Actual vs Predicted Scores:

Actual: 20 Predicted: 17.0

Actual: 27 Predicted: 29.0

Actual: 69 Predicted: 68.0

Actual: 60 Predicted: 60.0

Actual: 62 Predicted: 62.0