

EXPERIMENT – 8

PROGRAM:

```
from sklearn.linear_model import LinearRegression  
import numpy as np  
  
X = np.array([1,2,3,4,5]).reshape(-1,1)  
  
y = np.array([2,4,5,4,5])  
  
model = LinearRegression()  
  
model.fit(X, y)  
  
x_new = float(input("Enter X for prediction: "))  
  
print("Predicted Y:", model.predict([[x_new]])[0])
```