

 Generate

print hello world using rot13



Close

```
import numpy as np
from sklearn.linear_model import LinearRegression
import matplotlib.pyplot as plt

#sample data
X = np.array([5, 15, 25, 35, 45, 55]).reshape((-1, 1))
y = np.array([5, 20, 14, 32, 22, 38])

# create a linear regression model
model = LinearRegression()

# fit the model to the data
model.fit(X, y)

# print the slope and intercept
print('Slope:', model.coef_[0])
print('Intercept:', model.intercept_)

# make predictions
x_new = np.array([6]).reshape((-1, 1))
y_pred = model.predict(x_new)
print('Predicted y for x=6:', y_pred[0])

# plot the data and the result
plt.scatter(X, y, color='blue', label='Data points')
plt.plot(X, model.predict(X), color='red', label='regression line')
plt.scatter(x_new, y_pred, color='green', label='predicted value')
plt.xlabel('X')
plt.ylabel('y')
plt.title('simple Linear Regression')
plt.legend()
plt.show()
```

Slope: 0.54

Intercept: 5.633333333333329



Slope: 0.54

Intercept: 5.633333333333329

Predicted y for x=6: 8.87333333333333



