

Write a Python program to draw a scatter graph taking a random distribution in X and Y and plotted against each other

PROGRAM:

```
import matplotlib.pyplot as plt

import numpy as np

# Set a random seed for reproducibility
np.random.seed(42)

# Generate random data for X and Y
num_points = 100

random_x = np.random.rand(num_points)
random_y = np.random.rand(num_points)

# Create a scatter plot
plt.scatter(random_x, random_y, label='Random Distribution')

# Set labels and title
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.title('Scatter Plot with Random Distribution')

# Show legend
plt.legend()

# Show the plot
plt.show()
```

OUTPUT:

