Write a Python program to draw a scatter plot using random distributions to generate balls of different sizes

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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, Y, and sizes
num_balls = 50
random_x = np.random.rand(num_balls)
random_y = np.random.rand(num_balls)
ball_sizes = np.random.randint(10, 100, size=num_balls) # Random sizes between 10 and 100
# Create a scatter plot with balls of different sizes
plt.scatter(random_x, random_y, s=ball_sizes, alpha=0.7, label='Random Balls')
# Set labels and title
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.title('Scatter Plot with Balls of Different Sizes')
# Show legend
plt.legend()
# Show the plot
plt.show()
OUTPUT:
```

