Aim: To create a scatter plot with empty circles using random distribution for both x and y axes to visualize their relationship

pseudo code:

↓ import the matplotlib and numpy libraries

↓ Generate random values for x and y using a normal distribution

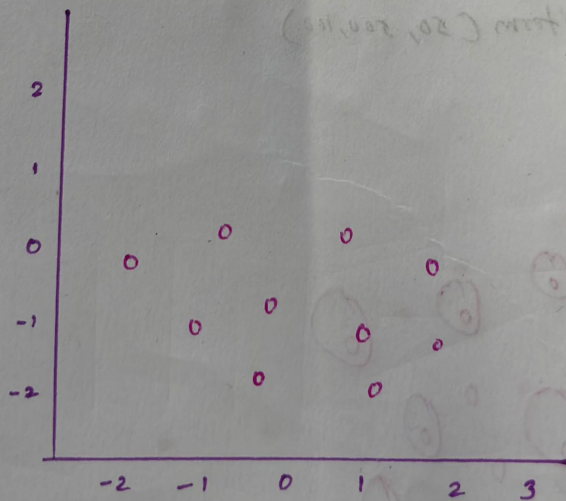↓ plot the scatter graph using empty circles for each point

↓ Display the plot

sample input:

$$x = np.random.normal (0, 1, 100)$$

$$y = np.random.normal (0, 1, 100)$$

$$plt.show ( )$$

Sample output:

Result:

This code was successfully executed and got the output

```python
import matplotlib.pyplot as plt
import numpy as np
# Generating random data for x and y coordinates
x = np.random.rand(50) * 100  # 50 random x-coordinates
y = np.random.rand(50) * 100  # 50 random y-coordinates
# Creating the scatter plot with empty circles
plt.scatter(x, y, facecolors='none', edgecolors='blue', marker='o')
# Adding labels and title
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
plt.title("Scatter Plot with Empty Circles")
# Displaying the plot
plt.show()
```


Scatter Plot with Empty Circles