Exp-32

Aim: To create a scatter plot using random distributions for both x and y axis to visualize their relationship

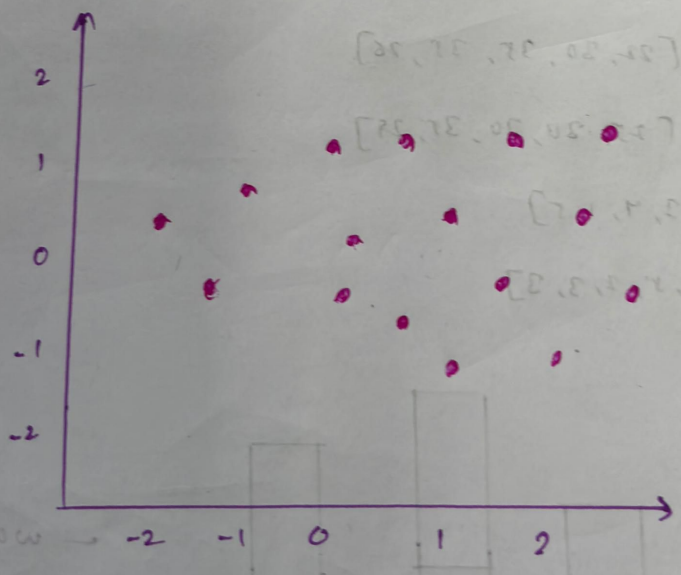
Pseudocode:

- import the matplotlib and numpy libraries
- Generate random values x and y using normal distribution
- plot the scatter graph using the generated x and y values
- Display the plot

Sample input:

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

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
plt.scatter(x, y, color='green', marker='o', alpha=0.6)
# Adding labels and title
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
plt.title("Scatter Plot with Random Distribution")
# Displaying the plot
plt.show()
```