Histogram

a) Create a list of 1000 randomly generated normally distributed numbers using NumPy.

b) Plot a histogram of the generated numbers using Matplotlib.

c) Label the x-axis as "Value" and the y-axis as "Frequency".

d) Add a title to the plot as "Histogram of Randomly Generated Data".

import numpy as np

import matplotlib.pyplot as plt

# Task 4a

data = np.random.randn(1000)

# Task 4b

plt.hist(data)

# Task 4c

plt.xlabel('Value')

plt.ylabel('Frequency')

# Task 4d

plt.title('Histogram of Randomly Generated Data')

# Display the plot

plt.show()