**Assignment 4 - Solution**

Write a Matplotlib program that creates a scatter plot of a set of data points with x and y coordinates stored in two NumPy arrays.

import numpy as np

import matplotlib.pyplot as plt

# generate some random data for the x and y coordinates

x = np.random.rand(50)

y = np.random.rand(50)

# create a scatter plot of the data

plt.scatter(x, y)

# add labels for the x and y axes

plt.xlabel("X")

plt.ylabel("Y")

# add a title to the plot

plt.title("Scatter Plot of Random Data")

# display the plot

plt.show()