**Training Report Day-13**

**22 June 2024**

Matplotlib

Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python. It is widely used for generating plots, graphs, and other visual representations of data, making it a key tool for data analysis and presentation.

import matplotlib.pyplot as plt

import numpy as np

xpoints=np.array([0,6])

ypoints=np.array([0,250])

plt.plot(xpoints,ypoints)

plt.show()

x=np.array([0,6])

y=np.array([0,100])

plt.plot(x,y)

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='\*')

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='o')

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='\*',linestyle='dotted')

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='\*',linestyle='dashed')

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='o',linestyle='dashdot')

plt.show()

ypoints=np.array([3,8,1,10])

xpoints=np.array([4,6,10,12])

plt.plot(ypoints,xpoints)

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='o',linestyle='dashdot',color="r")

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='o',linestyle='dashdot',color="hotpink")

plt.show()

ypoints=np.array([3,8,1,10])

plt.plot(ypoints,marker='o',color="r",linewidth="15.0")

plt.show()

x=np.array([4,5,7,9,12])

y=np.array([1,3,5,7,9])

plt.plot(x)

plt.plot(y)

plt.show()