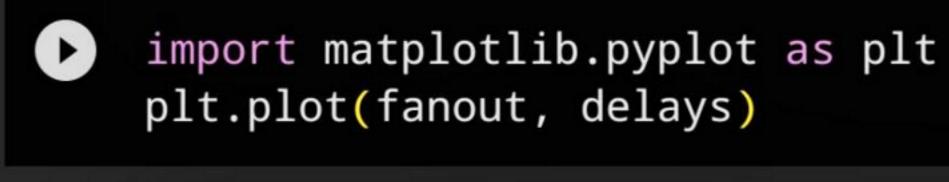
Assignment 2

11 September 2023 14

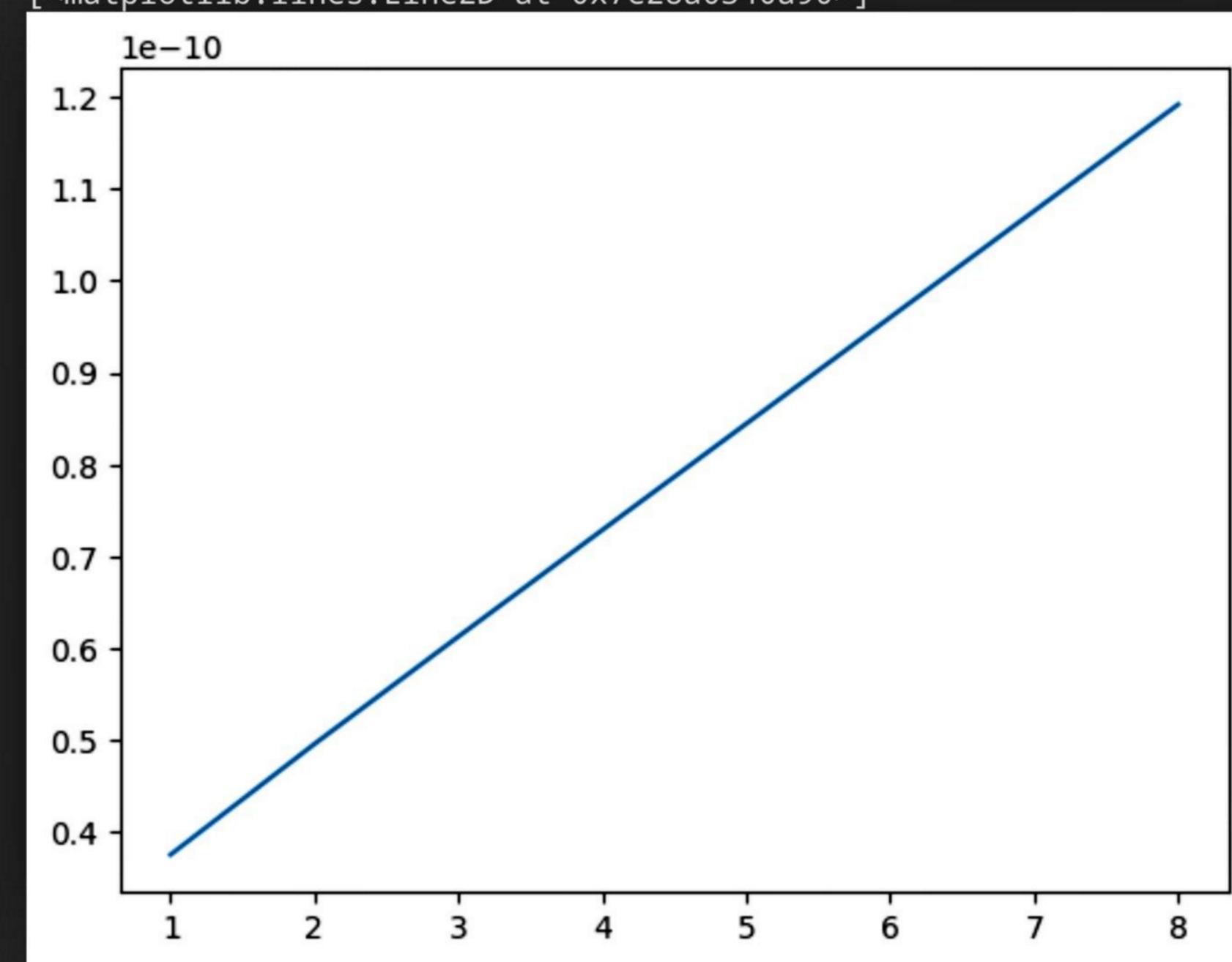
[] import numpy as np
delays = [3.74277e-11, 4.949883e-11, 6.120916e-11, 7.282830e-11, 8.441556e-11, 9
slope - tou, intercept = ro_inv
fanout = [1, 2, 3, 4, 5, 6, 7, 8]
print(np.polyfit(np.array(fanout), np.array(delays),1)) # Slope and intercept

[1.16551605e-11 2.60776779e-11]

Schooling the stope and intercept of the conver for delay us for out observed on the dut.







Slope =
$$1.16551605 \times 10^{-11}$$
 \Rightarrow $Z = 11.655 p See / Invertor$

$$\Rightarrow P_{\text{inv}} = 26.8776779 = 2.23743$$

$$11.6551605$$

The width of the f chonnels was = 1.053 um

The width of the n chonnels was = 0.3161 um

Hence
$$Gramma(8) = 1.053 = 3.3312 \approx 3.33$$