## Homework 3 Deadline: 1401/1/24 23:59



signal and systems

1- let x[n] = [0, 1, 1, 2, 1, 2, 1, 0, 1, 2, 2, 1, 0, 1, 1, 0] be a digital signal compute the co-occurrence matrices, P1, P2, and P3 compute the energy of values on the main diagonal of P1, P2, and P3

2- estimate a function for the following data using KDE.

note

implement your code using python or matlab

$$[(X,Y)] = [(1,1.02), (1.02,2.009), (2,3.001), (2,3), (3,3.01), (4.2,4.5)]$$

3-find the histogram of your image.(an arbitary image)

note

implement your code using python or matlab