

27/7/20

Exercise 1

B029

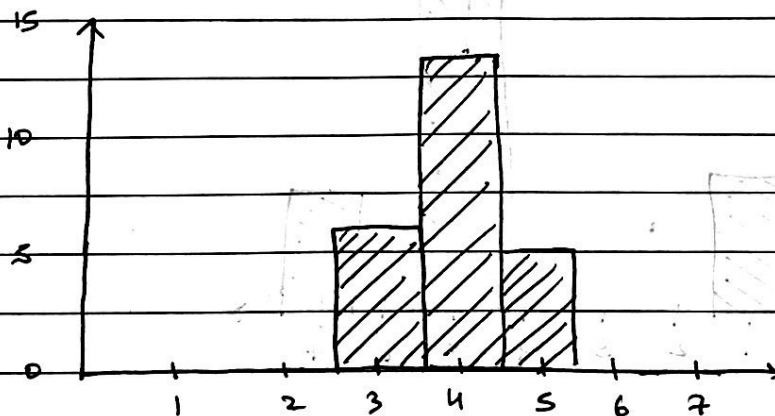
Aryann
Dhir

Q.1. → Perform following tasks on the digital image from below:

1. Plot the histogram of original image
2. Equalise the original image
3. Prepare the equalised image matrix
4. Plot the histogram of the equalised image

A. →

4	4	4	4	4
3	4	5	4	3
3	5	5	5	3
3	4	5	4	3
4	4	4	4	4



Gray Level	0	1	2	3	4	5	6	7
No. of Pixels	0	0	0	6	14	5	0	0
PDF	0	0	0	0.24	0.56	0.2	0	0
CDF	0	0	0	0.24	0.8	1	1	1
CDF * L-1	0	0	0	1.68	5.6	7	7	7
New Gray Levels	0	0	0	1	5	7	7	7

New Intensity 0 1 2 3 4 5 6 7

New No. of Pixels 0 6 0 0 0 14 0 5

New Matrix of Equalised Image

5	5	5	5	5
1	5	7	5	1
1	7	7	7	1
1	5	7	5	1
5	5	5	5	5

