Date:
Segmentation Numerical
Segmentation Numerical Griven data-
Pienels values = [0,1,2,3,4,5]
Frequency = [2,2,2,2,1]
Step 2:- Total pienels(N)
N = 2+2+2+2+2+1=11
Step 2:- Mean Intensity
Step 2:- Mean Intensity H = (0x2)+(1x2)+(2x2)+(3x2)+(4x2)+(5x1)
11
$H_T = 0+2+4+6+8+5 = 25 \approx 2.27$
11 )1
step 3: - Try threshold at diff values
lets compute between-class variance
for each threshold and pick the
manimum.
2-Threshold T = 2 (optimal Guess)
Class 2: [0,1,2]
class 2: [3, 4,5]
. class 2:
$w_1 = 2+2+2 = 6$ $p_1 = (0x2)+(1x2)+(2x2)=$
11 11 6

· class 2: $w_2 = 2+2+1 = S$   $H_2 = (3\times2) + (9\times2) + (5\times1) = 3.8$  SEP 4- Compute b/w class variance  $8\beta^2 = 2\nu, \times 2 \times (H_1 - H_2)^2$   $8\beta^2 = 6 \times 5 \times (1-3.8)^2$ = 0.122 conclusions-The optimal threshold is T=2, as it manimize b/wclass variance.