DSIP Assignment

AMEY THAKUR

BE comps B-50

Q. For the 3 bit image shown perform:

2023:

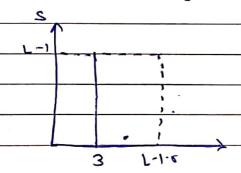
1) Thresholding (T = 3)

Since the given image is 3 bit $L=2^3=8$ Here

S = L -1 = 7 , 7 7 3

s = 0 , x < 3

.. The final image would be



4-	3	2	5	1	1	0	١	
0	2	1	6	Ö	O	O	1	
7	6	5	2	١	1	1	0	
1	2	3	5	0	0	1	1	1

Given Image

Resultant Image

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BE (0MPS 8-50 AMEY THAKUR 2 Gray level slicing with background T1 = 3 and T2=5 S = L-1 = 7 ; 3 & 8 = 5 otherwise S = 7 NZ Hence all the values between 3 and 5 are made equal to 7 and the remaining value remain unchanged 5 3 : Resultant Image 7 2 7 2 0 6 1 6 2 7 7 2 7

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				3) Bit Plane slicing														
•																		
	0 1	10	1	-														
	0	0 1	0															
	1	0,	0															
	1	0 1	١															
	10	B PI	ave.															
5	2																	
6	1																	
2_	5																	
24	5																	
	5 6 2	5 2 6 1 2 5	0 1 0 0 0 1 1 0 1 1 0 1 1 (B P)	1 0 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1														

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AMEY THAKUR BE COMPS B-30 (5) Contrast steeched Image (3,2) (r, 1,2 (5,6) 17 Now Calculate 8 = 2/3 X 0.67 <u>-</u> 4/2 2 = 8 = 1/2 = 0.5 -: Resultant image 2 1.3 6 4 0 1.3 0.6 6.5 6.5 7 1.3 6 0.6 6 1.3 2_

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