

The Maximum value is 30 so it will be control by

25	20	30
15	30	00
30	12	70
1		

30

iv) 00 10 12 15 20 20 25 30 30
The minimum value is 00 so it will be replaced by centred value.

25	20	30
15	890 o	00
30	12	20

Mean = 
$$\frac{1}{9}$$
 [ 25 + 70 + 30 + 15 + 10 + 0 + 30 + 12.

the output pinel is 18 so to is replaced by 18

	1	
15	20	30
15	18	00
70	12	20
		)/

(a) In image prooseing, a Kennel, convolution matrix of
son mask is, a small matrix used the Hurring, sharpering,
embossing edges detection.

The importance of size of kennel is 3x3 matrin in simple neighbourhood. So we will use 3x3 filter

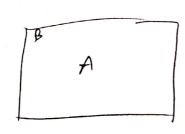
Linear sparial filtering of an image of size man

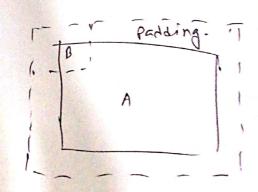
with a fitter of size man is given by expression

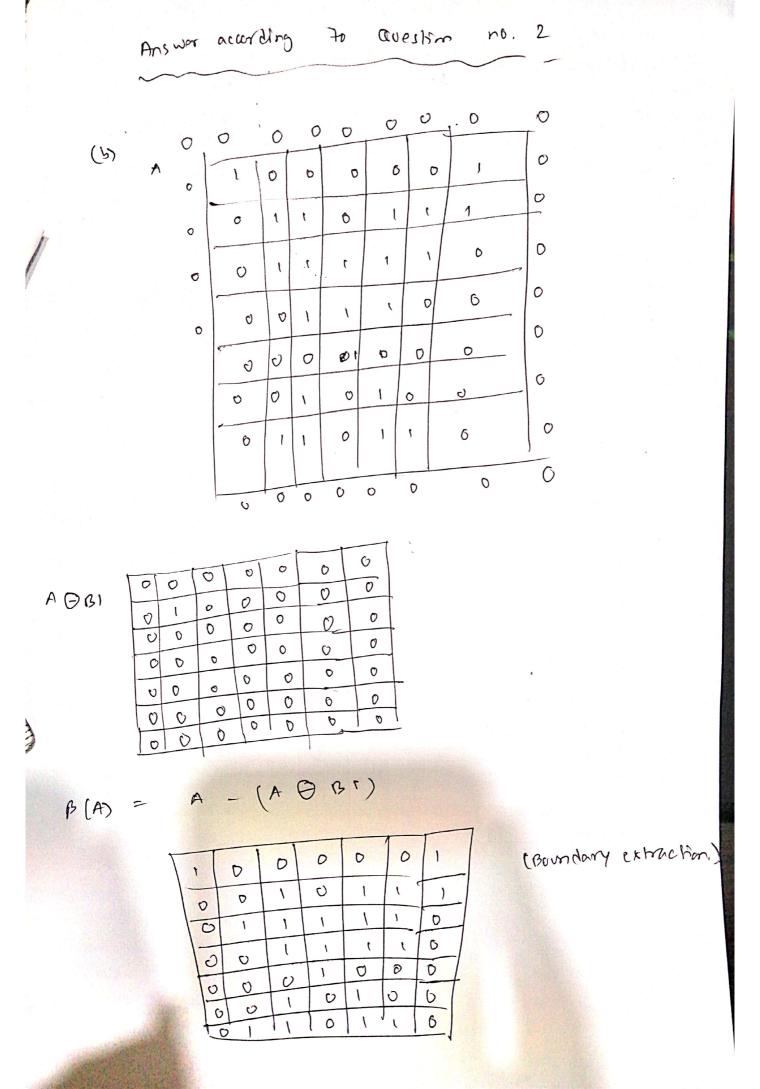
$$g(x,y) = \sum_{s=-a}^{a} \sum_{t=-b}^{b} w(s,t) f(x+s), y+t)$$

where 
$$a = \frac{n-1}{2}$$
,  $b = \frac{n-1}{2}$ 

(1) Padding is defined to be ones if erosion is pentament and zewes if dilation is pentament

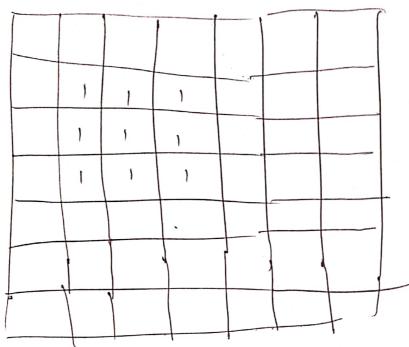






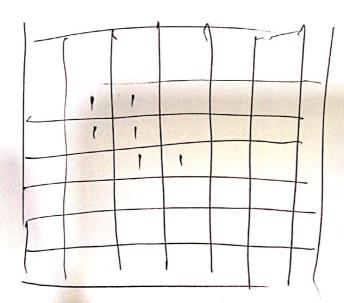
(a) Connected components!

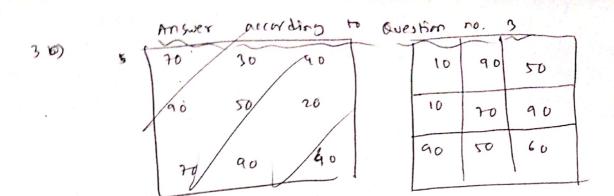
NK = (NK-1 @ R) () A



mo (+) B,

(no (P) B1) (A) = 91,





a) frewitt operator is used for edge detection in an image. It detects too types of edges of edges vertical edges

The sobel operator is called subel filter where it is used in image filter processing and it is used in image filter processing and computer vision particularly with edge detection computer vision particularly with edge detection algo. whose it creates an image comphasizing algo.

ILVP

c) Edge is a boundary between im. different image en segments.

In image probles in, histogram is used on the graphical representation of digital image. A To horizontal outs of graph is used to represent trad vanishms outs of graph is used to represent trad vanishms where as vertical axis is val to represent the other as vertical axis is val to represent the nor of pixels in particular pixel.

				40)	arna zhen	V 0	1
b)	0	50	0	0	0	0	
	Constitution	30	60	70	30	40	0
	0	SU	lu	9.0	50	re	, 0
	0	20	10	70	90	. 90	0
	O	30	90	50	CO	70	O
	0	10	30	40	. Lo	70	V
	0	0	0	0	O	0	a de la companya de l
		1 /	Zen	puddi	29	)	

0	1 1	D
1	-9	l
0	1	0

negative mask

we know

$$\frac{3^{2}f}{3^{2}f} = \frac{3^{2}f}{3^{2}h} + \frac{3^{2}f}{3^{2}h}$$

$$\frac{3^{2}f}{3^{2}h} = \frac{1}{3^{2}h} + \frac{3^{2}f}{3^{2}h}$$

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