DSIP ASSIGNMENT										
				والمعارض وال						
AMEY THAKUR										
BE comps B-50										
			-							
Q. For the 3-bit imag	e s	hown	, 0	pply	averaging	Filter by				
1) Zero padding	@ For the 3-bit image shown, apply averaging Filter by @ Pixel Replication.									
@ Pixel Replication.										
2017.	•									
Given Ingge	4	3	2_	5						
f(x,y)	0	5	i	6						
	7	6	5	2						
	,	2	8	5						
A 3 x 3 averaging	m q u	K	is si	っちょう	below.					
W (x, y) = 1	·	1 1	1							
9		, 1	1							
		1 1	1			5 F				
Filtering is performed	using	the	e c	Porrol	ition ope	nottpr				
Filtering is performed i.e. $g(x,y) = f($	C (, ×	*	W (2 4)						
<u>ب</u>	- <i>)</i>			49						
					A~	ver _				
]				

Тено Padding: Here we zero pad the image before performing the filtering operation. This gives us a 6×6 image. $f(\pi,y) = 0 0 0 0 0$ $0 4 2 2 5 0$ $0 0 2 1 6 0$ $0 7 6 5 2 0$ $0 1 2 3 5 0$ $0 0 0 0 0 0$	AMEY THAKUR		BE	co	nps	B - 57	5				
Here, one zero pad the image before performing the filtering operation. This gives us a 6×6 image. $f(n,y) = 0 0 0 0 0$ $0 4 2 2 5 0$ $0 7 6 5 2 0$ $0 1 2 3 5 0$											
Here, one zero pad the image before performing the filtering operation. This gives us a 6×6 image. $f(\pi,y) = 0 0 0 0 0$ $0 4 2 2 5 0$ $0 7 6 5 2 0$ $0 1 2 3 5 0$	O Zeno Padding:										
f(x,y) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		acl	the	image	belo	re pe	oformin	ig the			
f(x,y) = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	filtering operation.	-	This	gires	y.s	a '	5 × 6	image.			
0 4 2 2 5 0 0 0 2 1 6 0 0 7 6 5 2 0 0 1 2 3 5 0											
0 0 2 1 6 0 0 0 7 6 5 2 0 0 0 0 1 2 3 5 0	f(n,y) =	0	0	0	0	0	0				
0 7 6 5 2 0		O	4	3	2	5	0				
0 1 2 3 5 0		0	0	2_	1	6	0				
		0	7	6	7	2_	0				
0 0 0 0 0		0	1 -	2	3	2	0				
		٥	Q	0	0	0	0				

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AMEY THAXOR BE COMPS B-50 The more the averaging mark over this image starting from the top-left cormer as follows: (r,x) * W (x,y) -: g (x,y) ---0~1 + 0 % 1 o + 011 D 0 ~, + 4 * 1 + 3 * 1 + 0 7 1 2 47 O Q = 1.34 = 2.12 1.56 2.45 3.56 3.34 2.34 3.56 2.45 1.78 2.67 2.56 1.67

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Amey THAKUR BE COMPS B-50 2 Pixel Replication 5 5 2 f (2, 4) 3 5 4 5 6 0 2 7. 5 2 2 2 5 3 2 2 3 5 5) We more the greraging mark over his image top-left Grner befor. from chasting = f(n,y) + w (n,y) i. g (9,y) 2.34 2.23 3.23 4.12 -378 2.67 3.56 3.34 2.89 2, 56 3.89 3 21.8 3.67 3.34 2.89 4 12 3 4 3 4 4 3

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