Conc	dition	al Ph	1F														
	Let x	be	a d	iscret	e RV	with	PMF R	.cx).Le	+ C bo	e an	event	with	P(c)	>0. Tł	ne coi	nolition	nal
DMF	ot X																
		3			c) - D	1Y - ~	101-	P({X=x P(<u>\{\)</u>								
				Px'*'	.,	· / - /	(0)-		C)								
Exam	ple:																
	Roll a	fair	dice	and	let x	be the	resu	lting no	amber.	Find t	the co	nditio	nal PM	IF of	X giv	ven tha	at
the c	bserve	ed nu	mber 1	was le	ess tha	an 5											
	Condit	tion or	the ex	vent C	= fx < 5	st and	P(c)	- 4	ı .	-1 A							
	Therefo	ore, p	(xIC) =	P(X=x	l×<5) =	Pcix=x	}∩{x<5} /6) = { o	other	wise							
	tional E																
	The co	ndition	al expe	cted v	alue . d	enoted.	ECXIB	1 for s	ome ev	ent B	is						
					в= <u>х</u> р _х												
						(187-	KEINKYK	(VKID)									
	The co																
			VARCX	1B) = El	L(X-EL	XIB]) ²	B] = [(xk-E	ExเBไว้	, b*cxr	1B) = E1	- <i>[8</i> 1%	CEExI	B1) ²			