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	PRACTICAL-9	
Aim :-	To calculate the probability of poisson process.	
Problem	interval a to to We suppose that N(t) is Porson process with mean rate of 1/week Calculate the prob: that,	
lin Su	estem operate with no failure for 2 weeks.	
ه رنن	ystem will have exactly 2 failures during a given were knowing that it operate without failure in previous 2 was s.	k
(iii)	2 weeks elapse before the III failure occur	
Theory		
7	he counting process [X(t); t >0] is a Poisson Proce	81
(i) X	(0) = 0	
	socies have independend increment	
الراناني ال	he no- of events in any interval of length t is a poisson dist with mean [st].	
P	$T \times (t+x) - \times (x) = n $ = $e^{-\lambda t} (\lambda t)^m$	
) The	Poisson Process has a stationary & independent increment	
) Inter	poisson process with mean it are identically &	eg
indep	undently distributed 6.v which follows the	
	ative experiential lew with mean 1/1	
) so, t	we Poisson Process has independent exponentially	
	buted interactival times & gomma distributed was	tiv





