Dischere Fictelling	
$b(x_t) = 1/t \cdot p(z_t x_t) \cdot \sum_{x_t}$, P(x+1x+1, h+1). L(x+1)
$f(x_t h_{t+1}, \xi_{t+1})$	
annu that it represents a perbelolistic distribution	TRANSTITION PLEUSAM AND BOOK
Implementate a Bayes FILTER	
Map = matrix MXN where map (Now, uk) # mount Lo # colo	1: ounpiel = \ \ \ \ \pi: \frac{frue}{}{}
"maps/map.txt" = 10 x 10 matrix	
- Scenatio: Map, gld. olazio - Madelina the explan:	
-> Modeling the problem: [Theresi tion model [wo/nowne Oberushion model [w/model	P(X+ x+-1, M+-1)
- Brilding the filter	P(2+ x+) no obnerution
Product Ordief Opdale Indief	$\frac{\rho(\chi_{\uparrow} \mid \mu_{o:\uparrow\cdot 1}, \mathcal{L}_{i:\uparrow\cdot 1})}{\rho(\chi_{\uparrow} \mid \mu_{o:\uparrow\cdot 1}, \mathcal{L}_{i:\uparrow})}$
·	Wabel alan

4 commands / control imports: US/DOWN /LEFT /MEONT 4> Scinario GAZO-ORAZEO for all, - white Nemser W/4 Ommjen (whele) montel at it 4 when occupied - Which = TRANSETZEN MODEL: Humitian_probability_matrix = territian Model map - , how_from_) Mithix w/ SAME Nize on map. We - from-) writer = import) Setalors the perbeblity of moving to any cell in the map from the state = [tour from , col. from] · wunder the countries ty: foody adjust calls - continu (publicity remains the in that all) involid motions if obstate answered of the map IF NULL tandalism people ty = 1! · ruelucte in 4 duding MOVE_UP ___ upresents low 3 LEFT | Nicht

N.+1 (utul_imput_)		
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HOVE_DOWN	1	1	
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configurations for the next step considering the sucrans			
		Neto	and the worded input
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Armany U learn pendent observations			
P(Z+ X4) = P(Z+,1P(X+))P(Z+,DOWN (X+))P(Z+,CEPT (XA))P(Z+,AEGAT)			

4) BELLEF: -- Psedict: b+1+-1 = p(x+ | M 1:+-1) = \(\int_{x+-1} \right) = \(\int_{x+-1} \right) \(\int_{x+-1} \right) \) $= \sum_{x_{+-1}} \rho(x_{+}(x_{+-1}, M_{+-1})) \rho(x_{+-1}|\mu_{1:+-2}, \mathcal{E}_{1:+-2})$ possible configurations of Xt-1 THANKITEON MODEL B+-1 state belief _ perious (combinition of MARGINOLISATION + CHAIN AULE) P(x+ | m_{1,1-1}, 7_{1:1-1}) → Z_{X1-1}(...) joint X+, x+-1 - Uplike: lo (xx) - 1/2 p (2x | xx) \(\int_{x+-1} \) \(\rangle (xx) \) \(\int_{x+-1} \) \(\rangle (xx) \) \(\rangle (xx) \) When $7 + \frac{1}{Z_{x_{+}} p(x_{+} | x_{4-1}, y_{+1}) b(x_{4-1})}$ for (x= : X) } b[x.:]. b-pad [xai] x adoution Maddl (z, x-i) mormliter + = le [x] (horden souliter []