Lee-5, 17567, 24-25 名(S, q, s') = 2. P(2/s,a,s)  $p(\lambda|s',a,s) = p(\lambda,s'|s,a)$ p (s', n | s, a) p(s'Is,a) MDP framework: -( see eq. 1,2,3  $p(\alpha_1 y) = p(\alpha) p(y|\alpha)$ in the left) is abstract b flexible & can be applied = þly)þ(x/y) (1) to many different problems p(x,z)= p(x/z) p(y/x,z) many " rays. = P(y|z) p(x|y,z) (2)  $b(x, si|s, a) = b(x|s, a) \times b(si|x, s, a)$   $= b(si|s, a) \times b(x|s, a, si)$ 

time stefs: may refer to arbitrary successive stages of decision maluning easting. actions:- son-level controls such as voltage high-level decisions- whether or not to have lunch or go to graduate school.

Goals & Rewards: - Goal is formalized in terms of a special signal, called the neward passing from convironment to agent. Rt ER

sum of a received scalar signal (called new ard)

- mest distinctive feature of PL. - Read lest paragraphe on pg 53.

Returns & Episodes:-

hoal is to maximize the annulative reward it receives in the long run.

Return & Gt = Rt+1 + Rt+2+.... + RT
where T -> final time step (FTS)

Chars - terminal state | FTS: - when the agent - environment witeraction breaks maturally into loss | subsequences which we call epirales (articles)

ex-plays of a game, trips through a maze, er any sent of respected interaction

each spirode ends in a special state called terminal state, followed by a nesset to a standard starting state or to a sample from a standard distribution of starting states.

episodes are independent episodes can be commidered to end in the same terminal state, with different rewards for the diff. out comes. Those are called 'chievdictoris'.