Lec-11, IT567, 24-25

BE (Bellman equality) -> dees not involve max(.) & is defined for the optimal to defined for the optimal to bolicies - involves a max(.) good as bad. operation.

BE -> set of |S| simultaneous equations in |S| unknowns

gwein π : $S = \{S_1, S_2, S_3, S_4\}$ Complexity, we go for iterative |S| = 4 |S| = 4 |S| = 4 |S| = 4 |S| = 4

VMSu)

solution methods.

Choose Vo arbitrarily except that the terminal state, if any, must be given a zero value. $\frac{V_0}{V_m(S_2)} = \begin{bmatrix} V_m(S_2) \\ V_m(S_2) \end{bmatrix}$ iteration (Vir(sn)) If the model has terminal states then terminal states them
the set of " is denoted || Vi+1- Vi||_< E; max | Vi+1- Vi| $||a||_2 = \sqrt{|1^2+2^2+(-1)^2}$ a = [1]; ||a||p = (a| + az + az) ||p) fixed function

f(x)? > suppose it is x,

there then 34 = f/34)

FP:- also called invariant faint is a value that does not change under a given transfermation. Specifically, for functions, a fixed faint is an element that is mapped to itself by the function.

$$V_0 = \begin{bmatrix} -1 \\ 0.5 \\ 0.3 \\ -2 \end{bmatrix}$$
 $V_1(s_1) = \text{use } V_0(s_1), V_0(s_2), V_0(s_3) \stackrel{d}{=} V_0(s_4)$
to evaluate
 $V_1(s_2) = y$
 $v_1(s_1), V_0(s_2), V_0(s_3), V_0(s_4)$