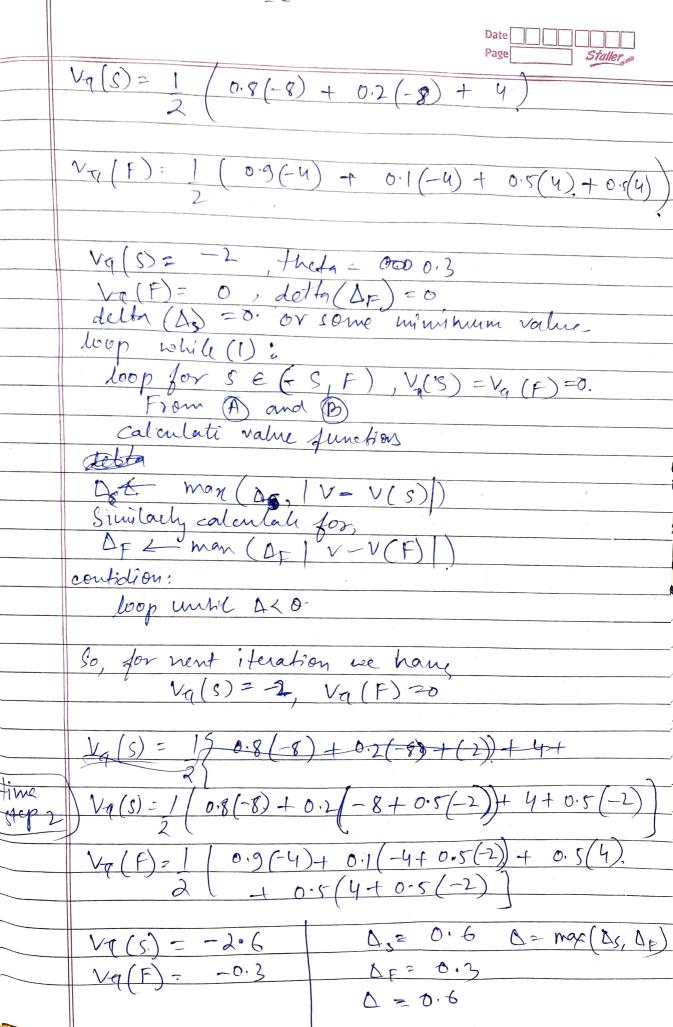
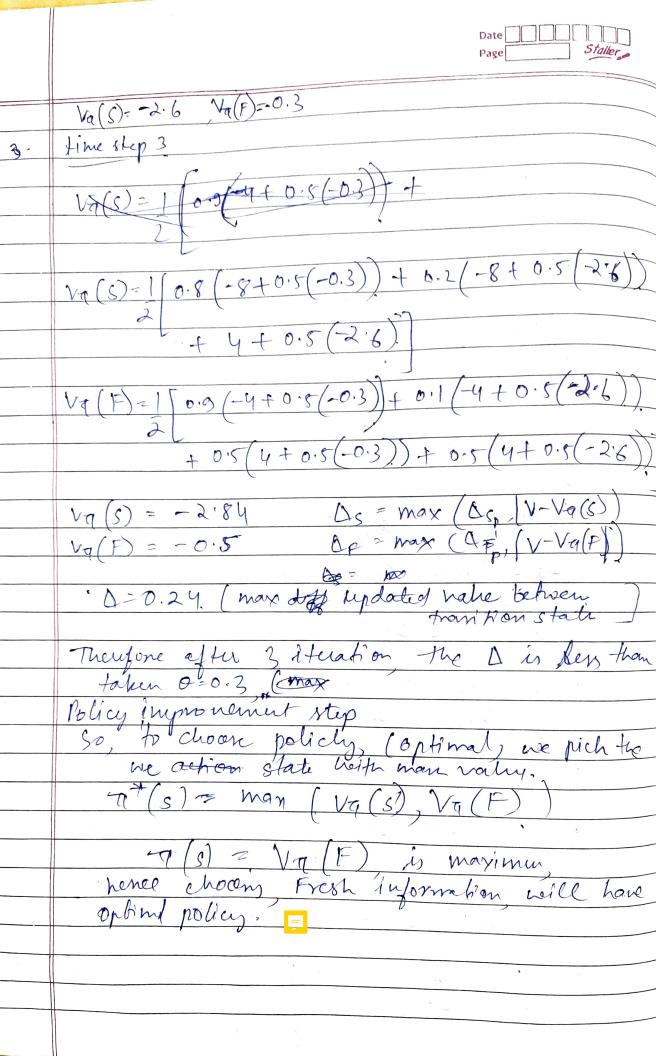
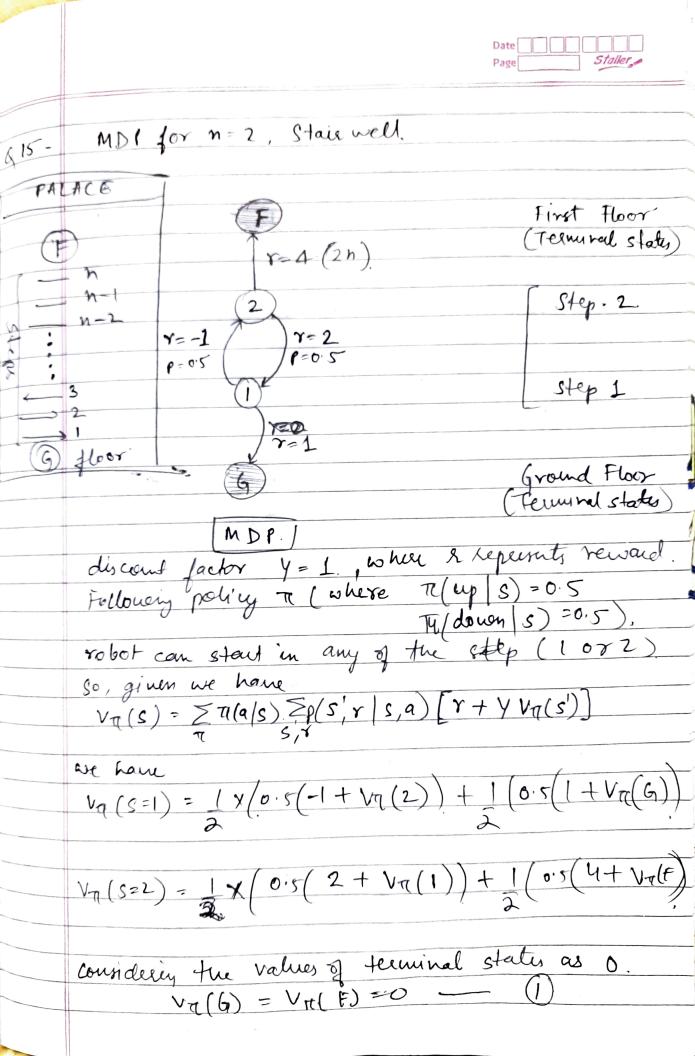
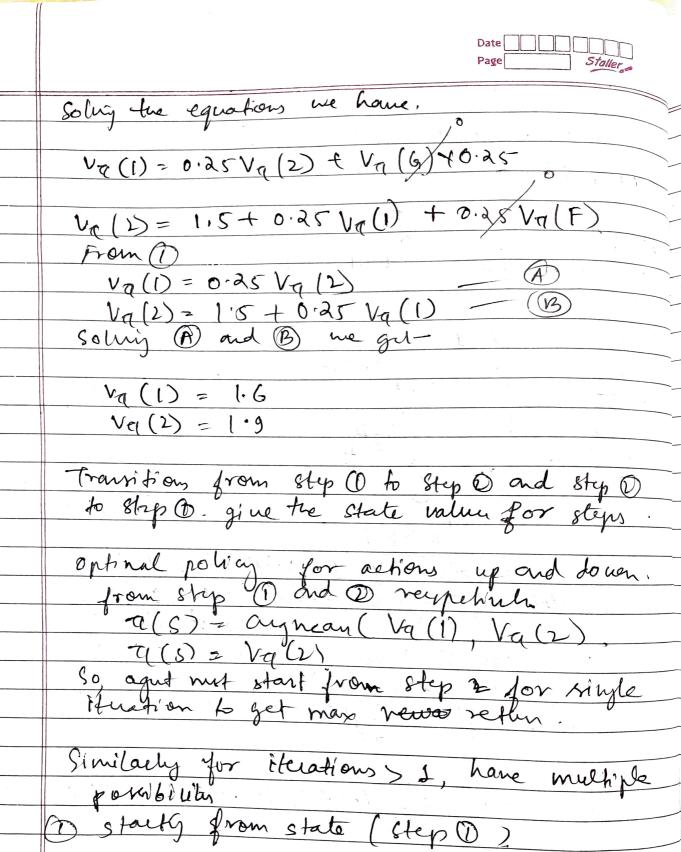


TE









Perible state front dons for two time steps



When no of steps increases n>2. , possibility of initial-starting state increases, As minimum only O iteration is needed to reach terminal states for each step n=2. No. of iteration needed to reach terminal state increass. Eg - n=3 Starty for 1step, closer to G, only 1 iteration, for, F, O-B-B, 3 iteration, needed similarly, No. of iterations increases with n.
Possible no. of francition with 3 iteration From (1), $0 \longrightarrow 0 \longrightarrow 0 \longrightarrow (5)$ $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ $0 \rightarrow 0 \rightarrow 0 \rightarrow 0$ D->0-0 D-D-D-(3) D→3 → D→B)
Similarly. for step B) therefore it incream. o with h power -# of ituation & moth (appron)