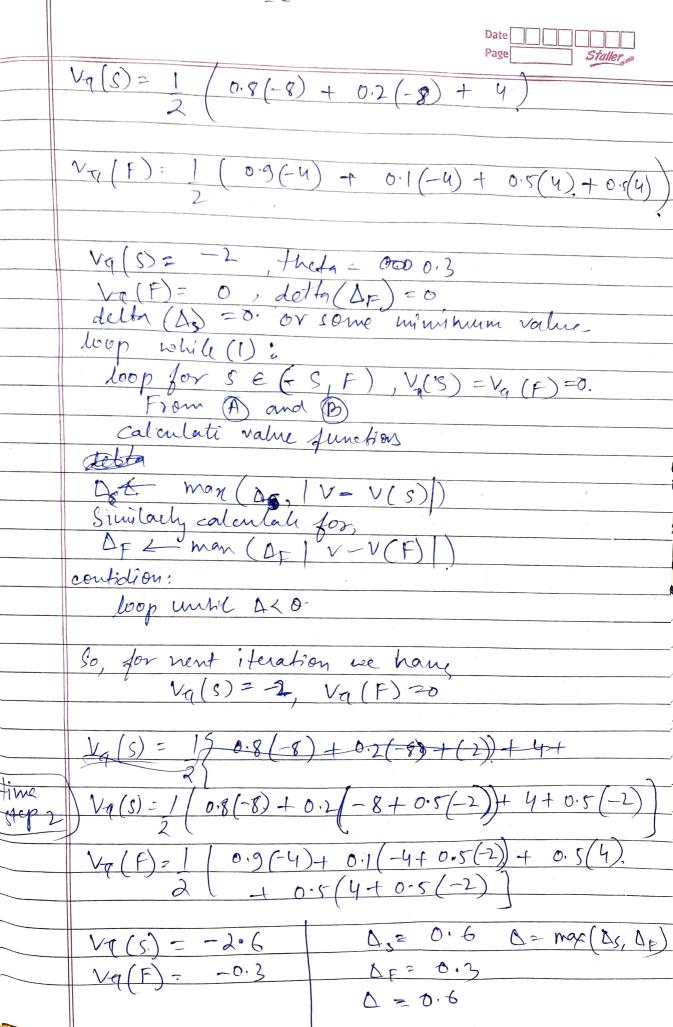
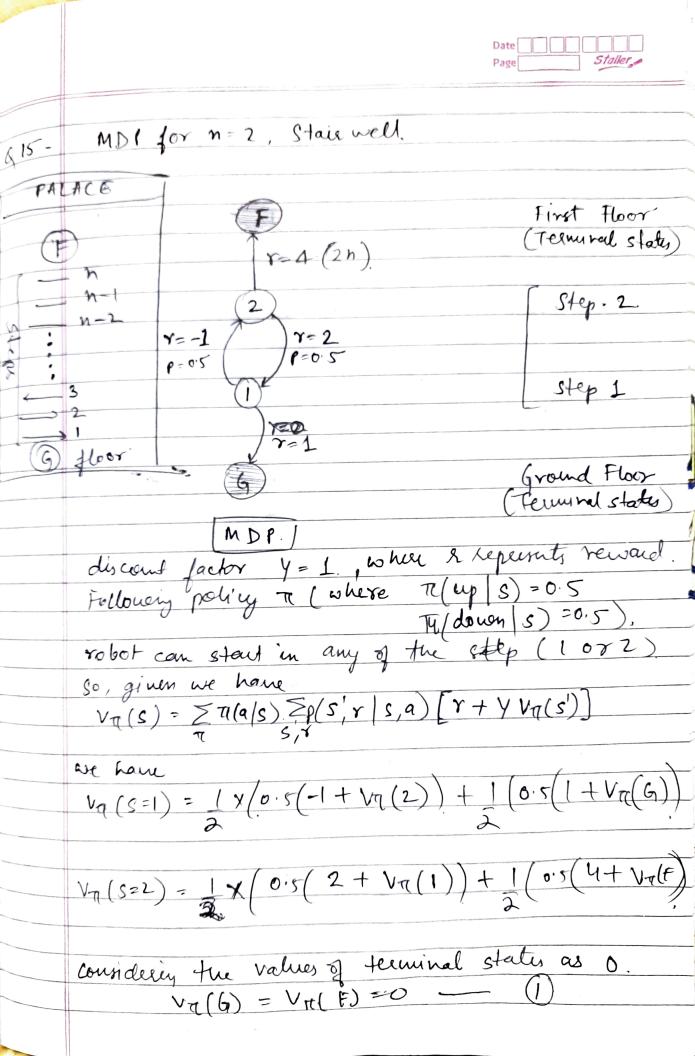
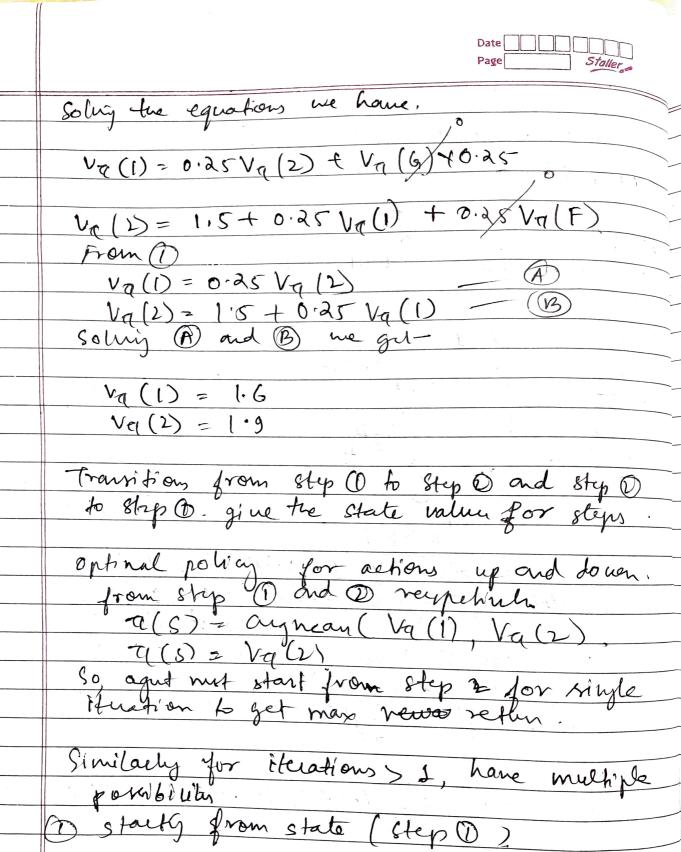


TE

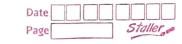


Va(S)=-2.6 Va(F)=-0.3 time step 3 Va(s)=100(-4+0.5(-03)+-+ Va(S)=1 0.8 (-8+0.5(-0.3)) + 0.2 (-8+0.5(2.6)) 4+0.5(2.6) [0.9(-4+0.5(-0.3))+0.1(-4+0.5(-2).6 + 0.5 (4+0.5(-0.3)) + 0.5 (4+0.5(-2.8) Vq(S) = -2.84  $V_q(F) = -0.5$   $D_F = max(\Delta_S, V-V_q(S))$ · D=0.24. (max doff updated value between trans Hon state Therefore after 3 iteration the D is less than taken 0=0.3 Comax Policy improvement step So, to choose policy (optimal, we pich to we action state beith man value. TIT(s)= man (Va(s), Va(F)) hence choon Fresh information will have orbind policy.





Persible state from 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 fransition with 3 iteration From (1),  $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$  $0 \rightarrow 0 \rightarrow 0 \rightarrow 0$ D->0-0-0 D-D-D-(3) D→3 → D→B Similarly. for step B therefore It incream. o with h power -# of ituation & moth (appron)