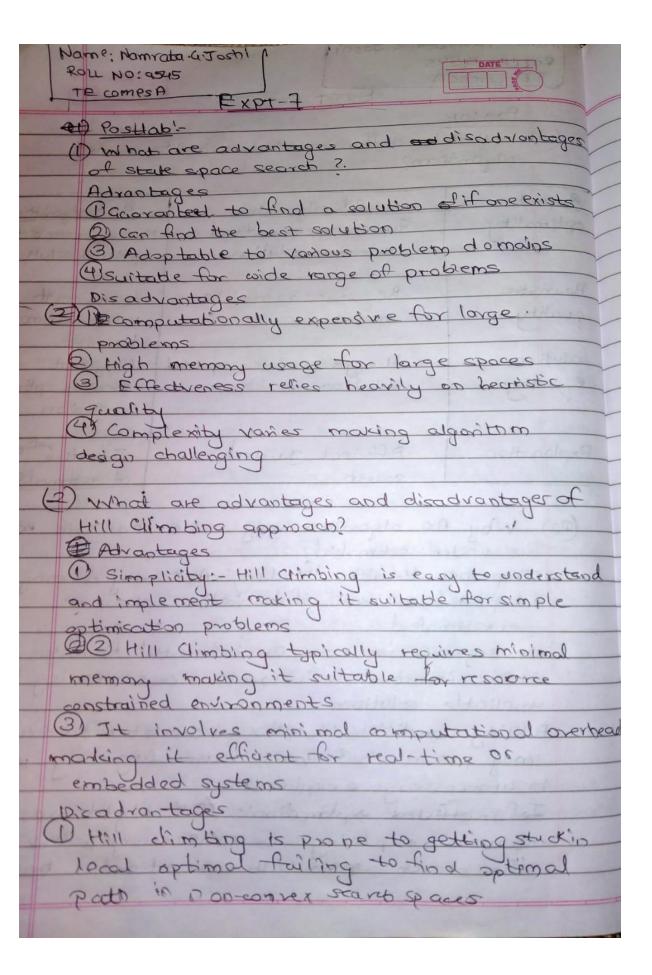
EXPERIMENT 7

Postlab

- 1. What are the advantages and disadvantages of state space search?
- 2. What are the advantages and disadvantages of the Hill Climbing approach?
- 3. Describe variations of Hill Climbing approach
- 4. Solve the Block World problem by using the STRIPS method.



2) It lacks mechanisms for backtrading cannot escape from local optimal B) Hill did in bing only explores neighbouring solutions which may lead to missing potentially better solutions that are further acray There is no guarantee that Hith all mbing with find the optimal edution even if eit configures (3) Describe variations of Hill climbing Approach BI teratively adecte the first neighbouring solution that improves upon the wrient state but may get stuck at local optima & Performs Hill dimbing searches formdifferent initial states to migitate the risk of getting stuck is local optimal 23) Introduces randomnes to allow acceptance of coorst colutions with a certain probability taditating escape from local aption optima (4) comblines bill dimbing with permutation techniques to escape local optima by periodically restarting the search from different points tain the solution space (4) solve the block world problem by using STRIPS method Block corld problem using the (stanford Research Institute problem 301mg Tribal state: On (A, Table) (Godstate: On (A, B) on (Citable) On (BTODIE On CC, Table