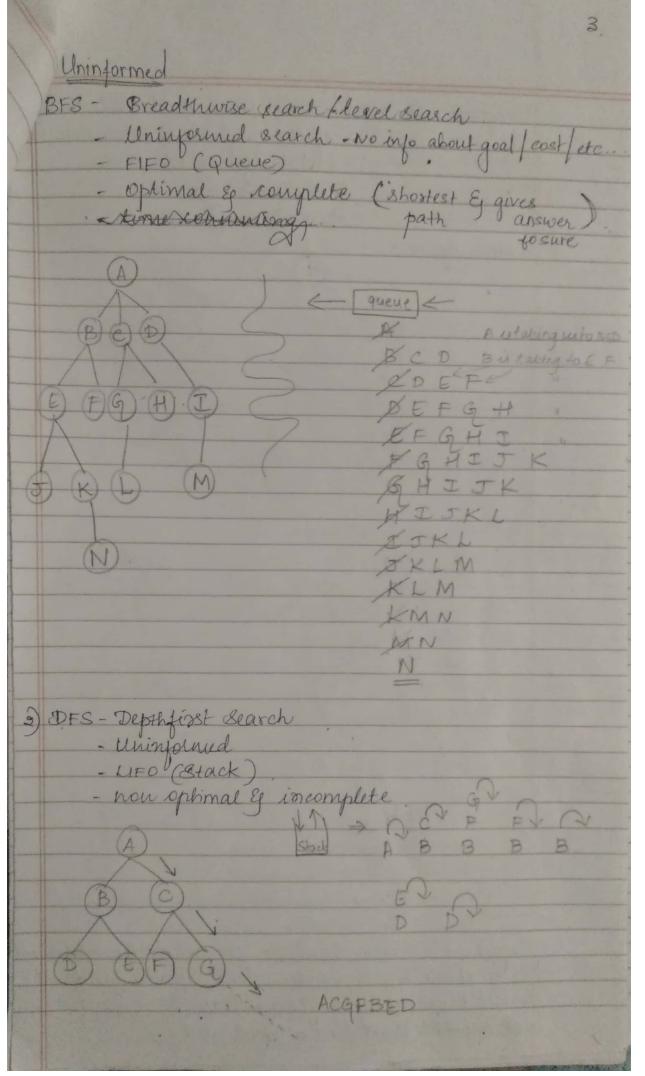
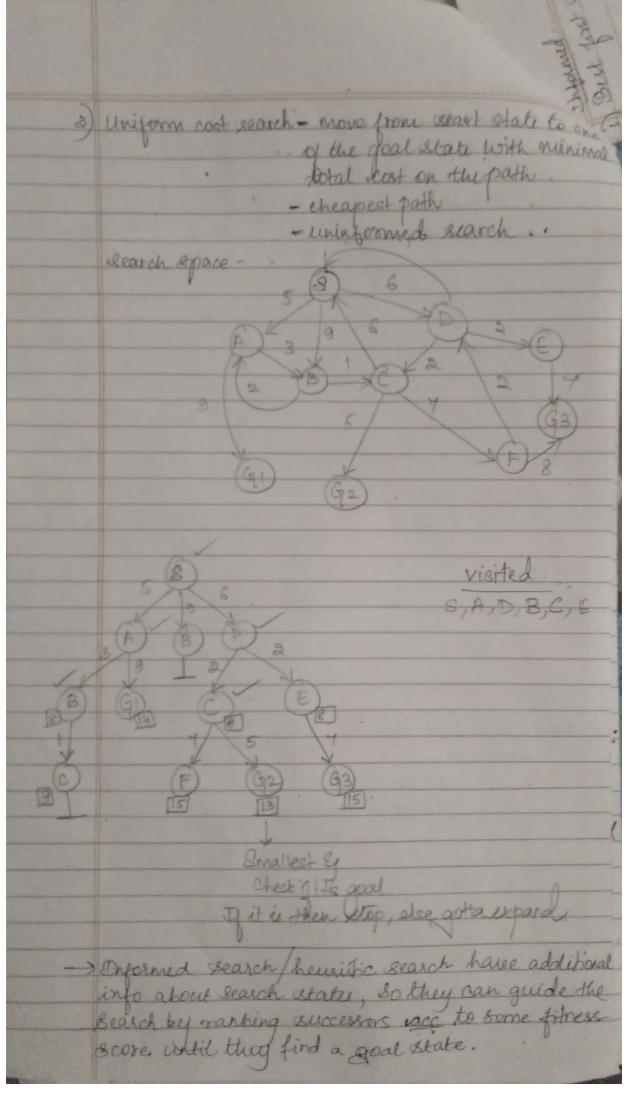
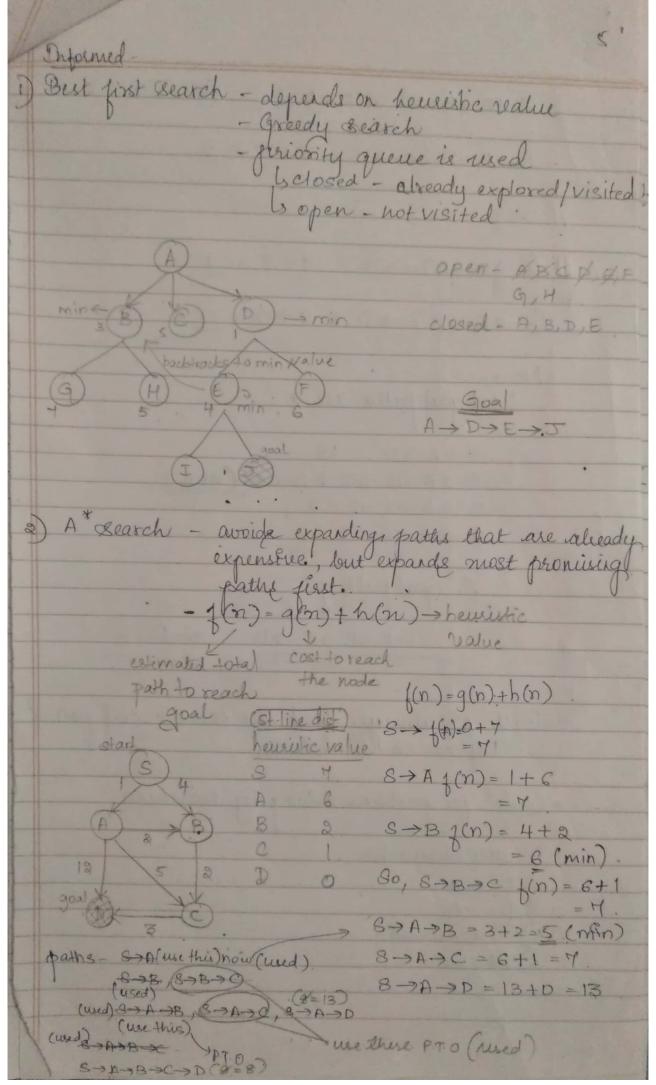
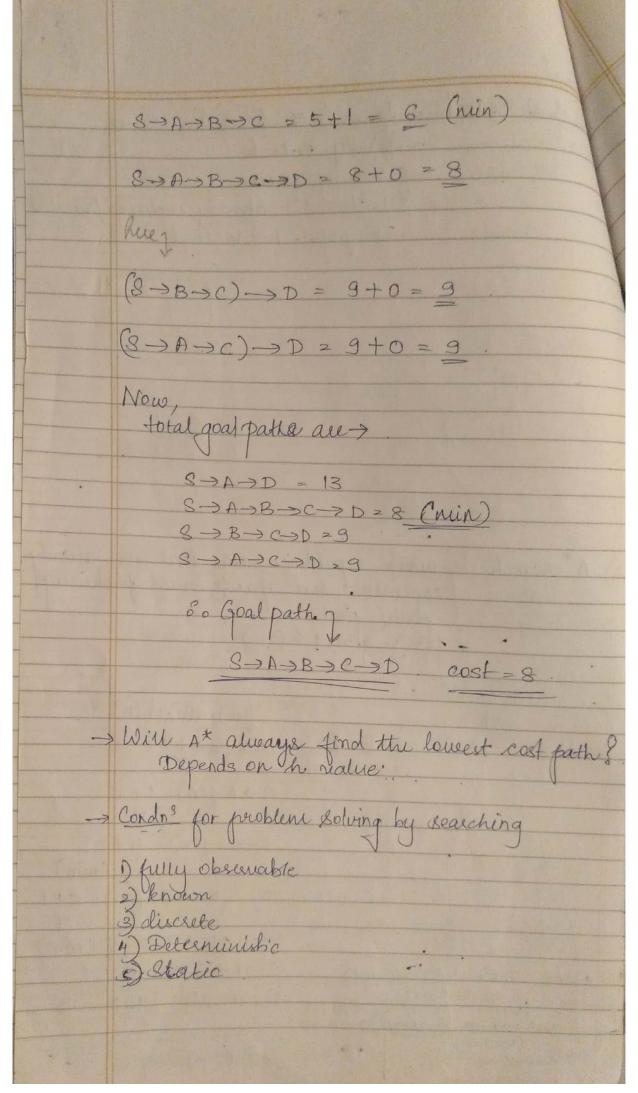
	PAI
	Gate8mashers
	Uninformed search Degramed search (blind/brute force)
	· Search without info  · No knowledge  · Use knowledge to find  Steps to soln
	· Pine comming . · Quick gold .  · More complexity (time, Less complexity (time, gpace) .  · Eq - DFS BFS Unison .  · Eq - Beat livel count
	· Eg - DFS, BFS, unigorm · Eg - Best first search  cost search  fleuristic DFS
	The process of looking for a sequence of actions that heaches the goal is ralled SEARCH.
-	problem can be defined formally by 5 congrenents.
	9) actions 9) Aramition model State space set of all status 9) Transition model seachable from initial state 1) goal test by any sequence of actions. 5) path cost
	An action sequence that leads from the initial state to goal state is called the BOKUTION
-	Solutions has lowest path cost among all
	movers of removing detail from Hepresentation is walled ABSTRACTION.

-> Definition of a problem -Prikal Stale Sa, , a2, a3, --- - 3 Actions Result (s,a) goal test (s) - Frue/False Fath cost (sissitions) > cost value (n) wher i=0,1,-P=1,2, ---Step cost (S, a, S') -> n - uniformed search have no additional into about states beyond that aprovided in the problem definition, so they can only probed by geneating successors until drug find a goal state > Snot - initial state blanches - action nodes - status leaf node - node with no children frontier- set of all leaf nodes available. for expansion at any given points: In graph-search, the frontier separates the state space graph into explored of unexplored segion, so that every path from initial state to an unexplosed state has to pass through a state in the frontier









No.
Henristic search - Quides the search process in the most profitable path among all that
nost profitable path among all that
informed.
7 2 4 - 1 2
S-6 3 4 5 2 3 1 6 7 8
Start state goal state
hi - Spaces filled - 8
h2 - sum of shortest distances to reach goal state
3+1+2+2+2+3+3+2 = 18
I's shortest 3's shortest
dist dist
optimal son - h1 + h2 = 8+18 = 26 moves max
needed to
8 puzzle problem - (without heuristic) Solve problem
uninformed
48-456
H 6 5 H 8 - 1
Start State goal State
\$(123), (480), (465)2 -> Initial state
\$ (23), (485), (7,60)4
5(123), (485), (406) 4
\$(123), (405), (786) } Total path cost = 5.
\$(123), (456), (480)2

