	AI preparation:
*	Agents / Inteligent agents .
07	Percept
	agent Q Sensors
	Program (Environment)
	Auctuators (Action)
-	agent percept from environment of two type. Ocument
-	basel on the agreenting (for 1) and
	based on the perception "agent" perform action through "agent program"
-	so means on the hastes of perception the output is known as
	effectors to change the environment.
	The whole flow
	Agent -> Percept -> Decision -> Action
	From - 5 to Environment
	Environment

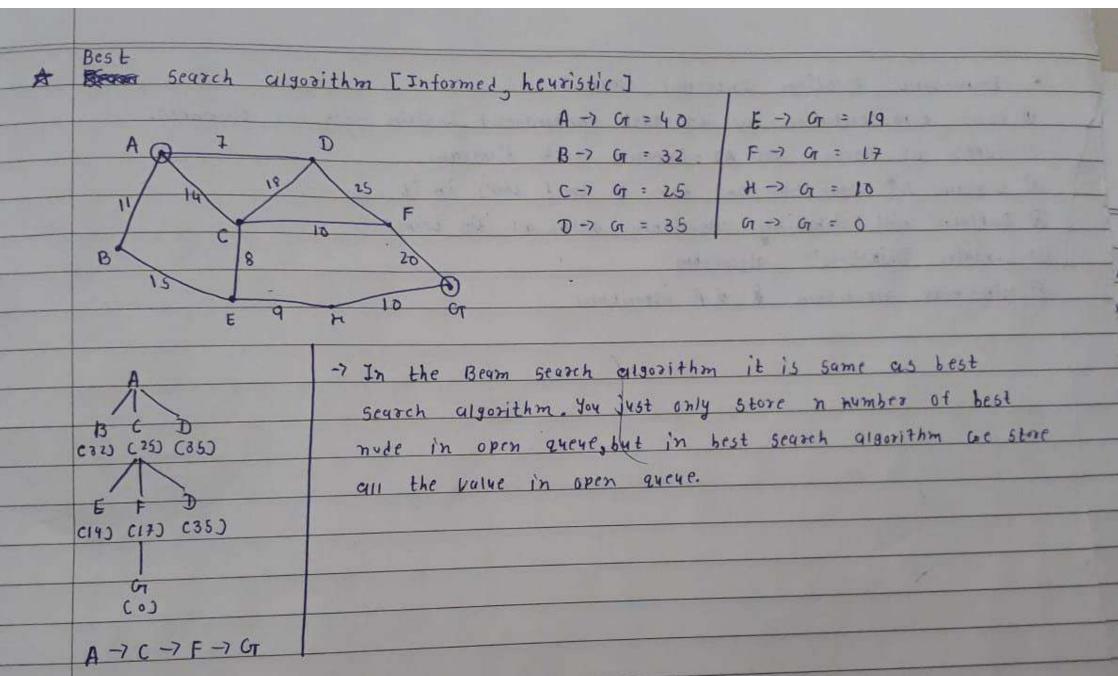
* Goal of Agent: High performance, - Optimised Result, - Reflorar Action A P -> Performance measure E -> Environment A -> Actuators 5, -> 5ensors PEAS Description for Automated CAR ... Agent Type: Automuted car Performance Measure: Minimizing fuel Consumption, Safe, fast, Accurate, Comfert, Minimum Cost Environment: Road, Other vehicles, truffic sign & signal, sexist Pedestrain, Road with Actuators: Steering wheel; Acceleration; Break, indicator, voice interaction with Proson Interaction Display Sensors : camera, speedometer, Caps, Range Sensor, Sonap, Keyboard & Microphone for user interaction.

×	Terms which are used in Task Environment of PEAS
•	agent = an agent can be anything which persist the environment
	through sensors and perform certain action based on the
	persistions to change the environment with the use of actuators.
	Sensors = an sensors can be defined which helps the agent to tune
	inputs from the environment.
	agent program = an agent program is one Logic program which process
	the input of the sensors through environment
	Actuators = an actuator is some a to defined which perform some action
	based on the agent program's output and change the environment
	Environment = An environment is everything in the world which surrounds
	the agent, but it is not a past of an agent which also described
4-3 a	as a situation in which the agent is present.
	Effectors = Mechanism / Levices through which the agent can act to the
	environment.
	percept = The raw sensory data / Information received by the agent
	through sensor befrom the environment.

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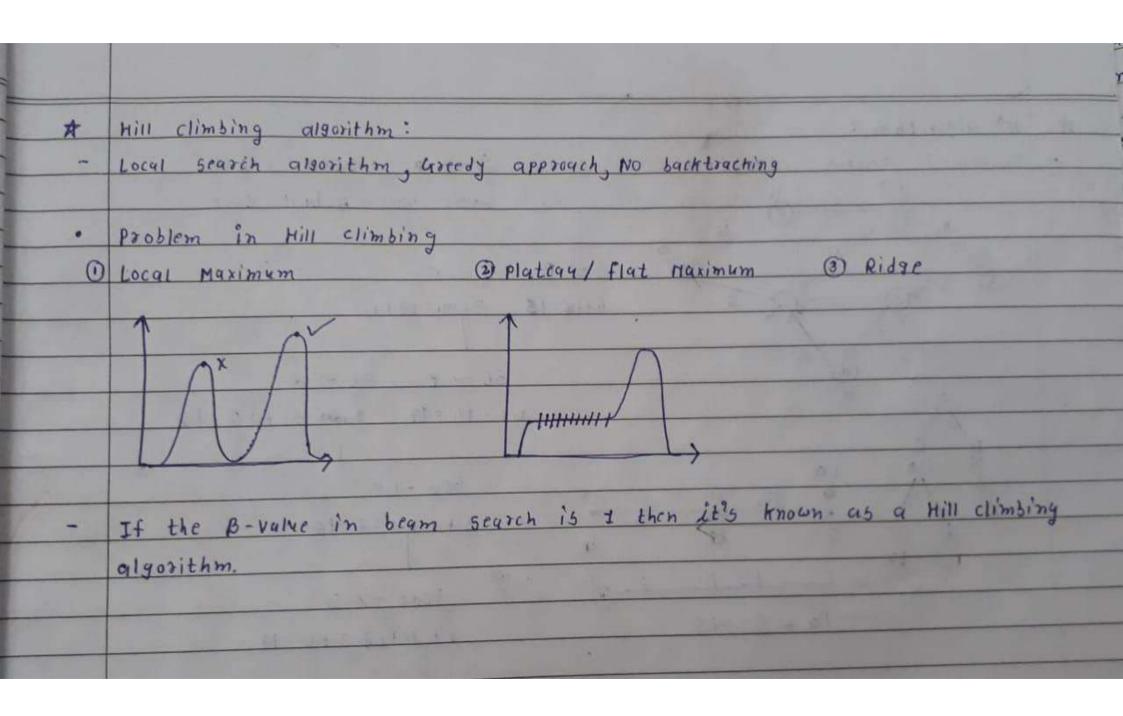
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*	Types of Agent	The same of	* confusion nataix
0	Simple Reflex agent - Fully ob	Servuble	
(2)	Model based Reflex agent	0.35 00	TP FA
3	Groul based agent - partially obse	rvuble	FP FN
<u>(a)</u>	Utility based agent - partially obser	avable	
(5)	Learning agent	VI 9	a de la
		3.5	
A	BFS (Breadth First Search): un	informed	search technique blindford
	seasch technique, Brutforce techni		
-	shallowest node, FIFO Complete		
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	RCD	ZHLM	BA'L'L
	1 O D KDEF	*LM	GT A M E (5)
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4	- MIJKL		7 5

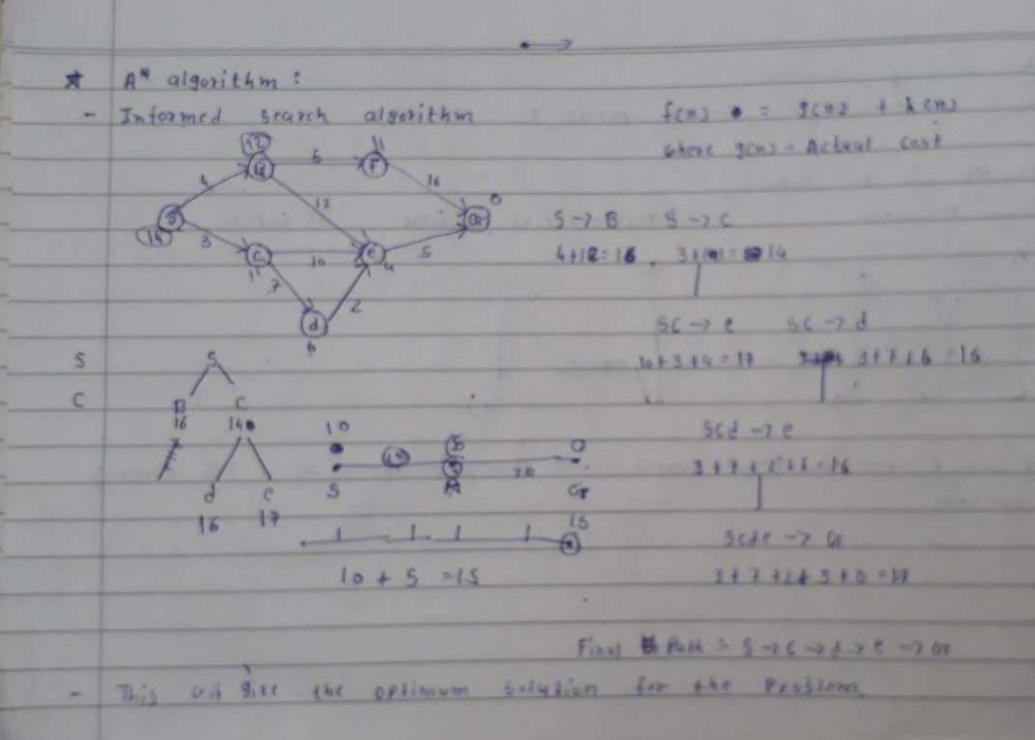
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	DFS (Depth first Se	arch) ! 47	ninformed Seur	ch technique,	34153
	Stack (LIFO) 13 Deepest				
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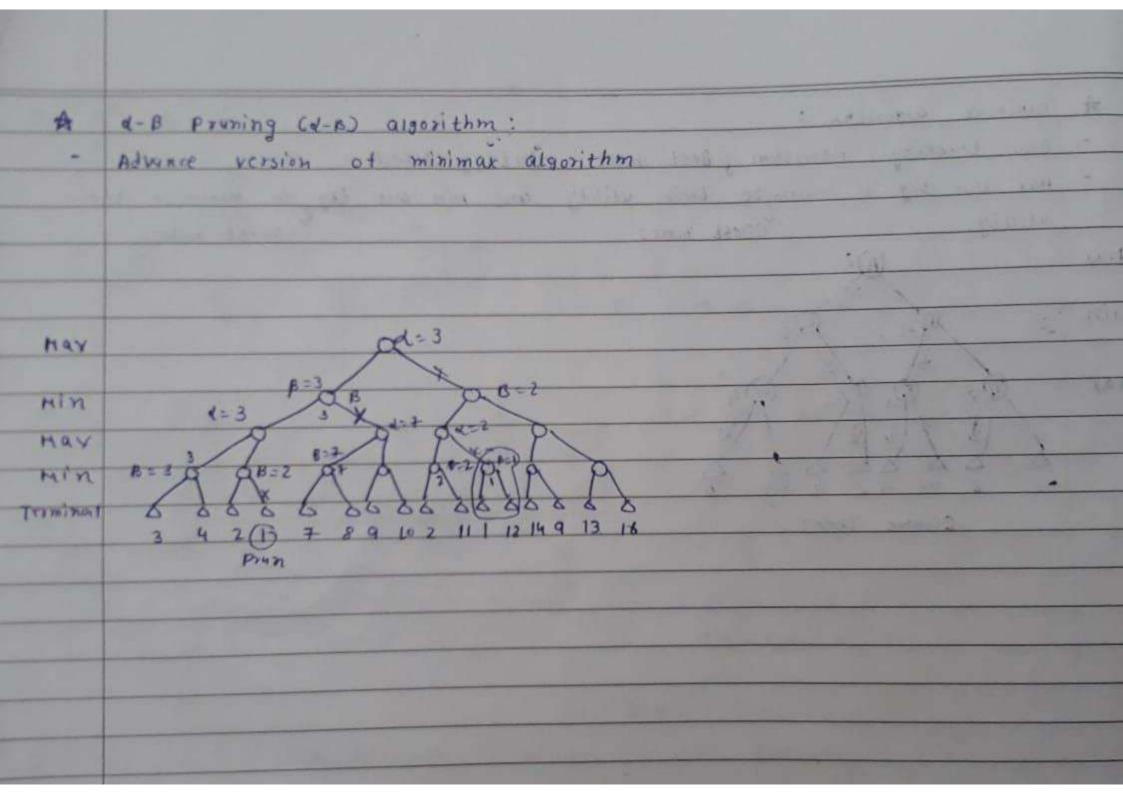
	Important Question Internal escam:		
	PEAS representation of an Task environment Explain with on	1 excusale	
	Types of Agents In Al: Explain with diagram.		
	Explain A* algorithm and how to avoid loops in it.		
 9	Explain Hill climbing algorithm with all it's terms.		1
	Explain Diskstra's algorithm		× 4
	Min-max algorithm & d-B algorithm	1	
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Minimax algorithm : Back tracking algorithm, Best move strategy used max will try to maximize their utility and min will try to minimize their CBrst more CONTSE Make) Reility. MAK min MAL Chame Trees



A A* algorithm:

which is one of the best and popular techniques used for path finding and graph traversal. A lot of games are using this algorithm to find the best route efficiently. This is the best first search algorithm.

A* algorithm extends the path that minimizes the following function.

f(n) = g(n) th(n) where n = last node on the path

Example:

b(n) = cost of path from start to n

hens: heuristic function that estimate cost

from "n' node to goal node.

A-> B A-> F

6 + 8 = 14 6 + 3 = 9

AF-7 G AF-7 H

4+5=9 10+3=13

AFG -7] -7 AFGI -7 J

7 +1 = 8 Lu+0=10

Final Puth: A-7 F -> G -> I -> J