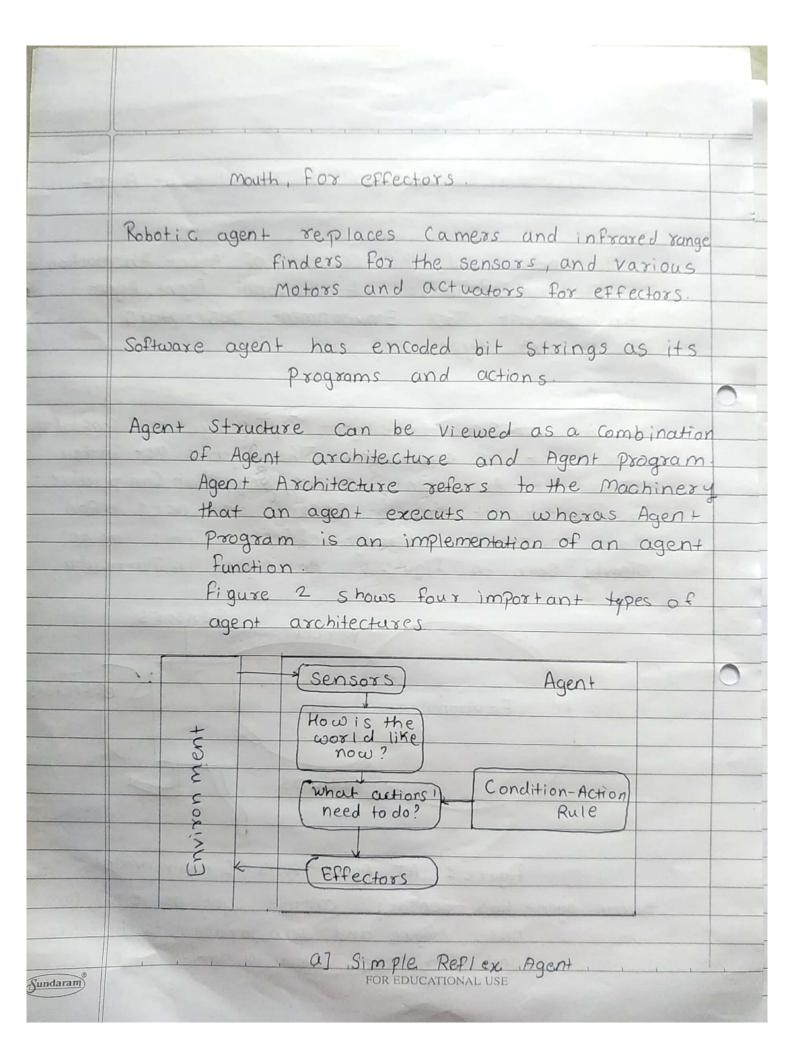
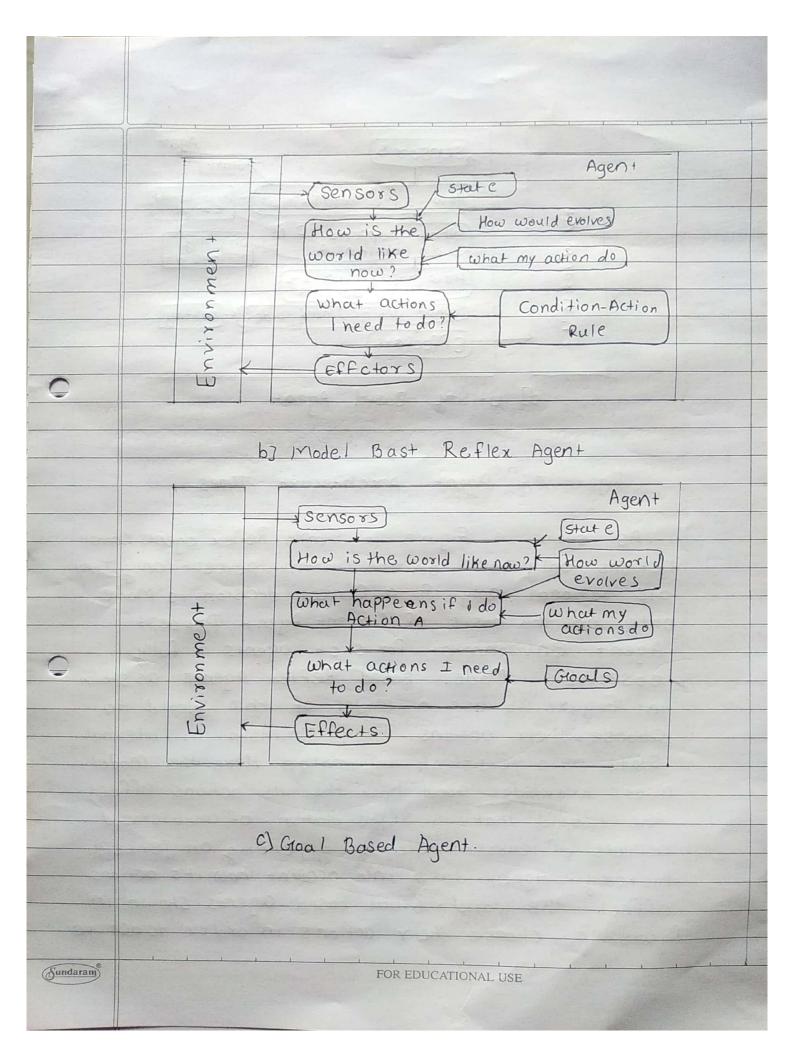
	Tutozial 1:	Design of	Tntellig	jent Agent	
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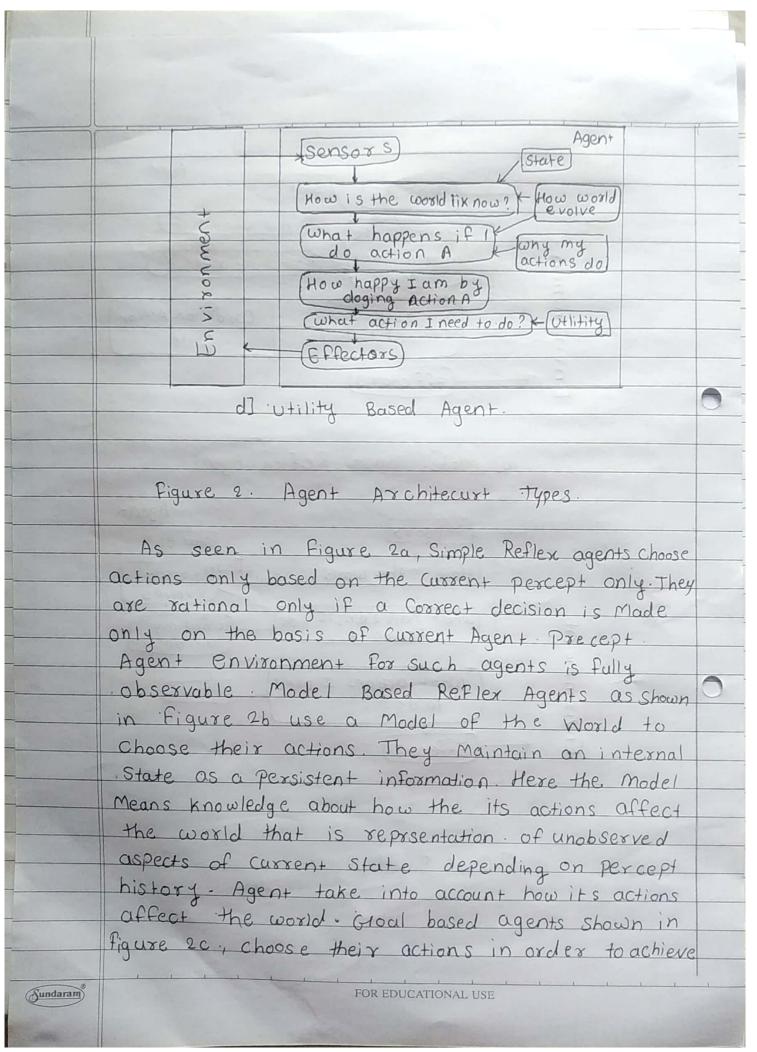
Tutorial 1: Design of Intelligent Agent Aim = To understand the concept of Agent Abstraction by Studying definition of Rational Agent, Agent Anvisonment, Task Envisonment Descriptors environment types. Theory: An artifical Intelligent (AI) system is composed of an agent its environment. The agents act in their environment. An agent is anything that Can perceive its environment through sensors and acts upon that environment through effectso. This can be Clearly Seen in figure 1. An agent in Particular Can be: Sensors percepts · er fectors Envisonment Actions Figure 1: AI Agent with Environment. Human agent has sensory organs such as eyes, cars nose, tongue and skin Paralle 1 to the sensors, and other organs Such a hands, lege. FOR EDUCATIONAL USE (Sundaram)

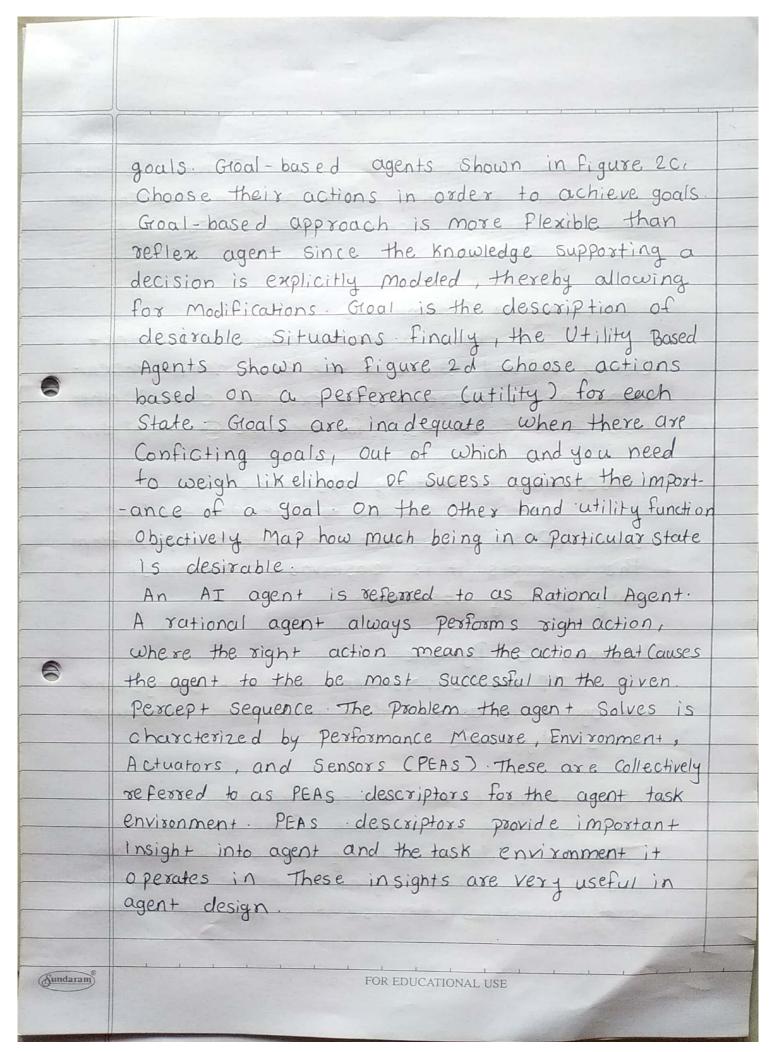


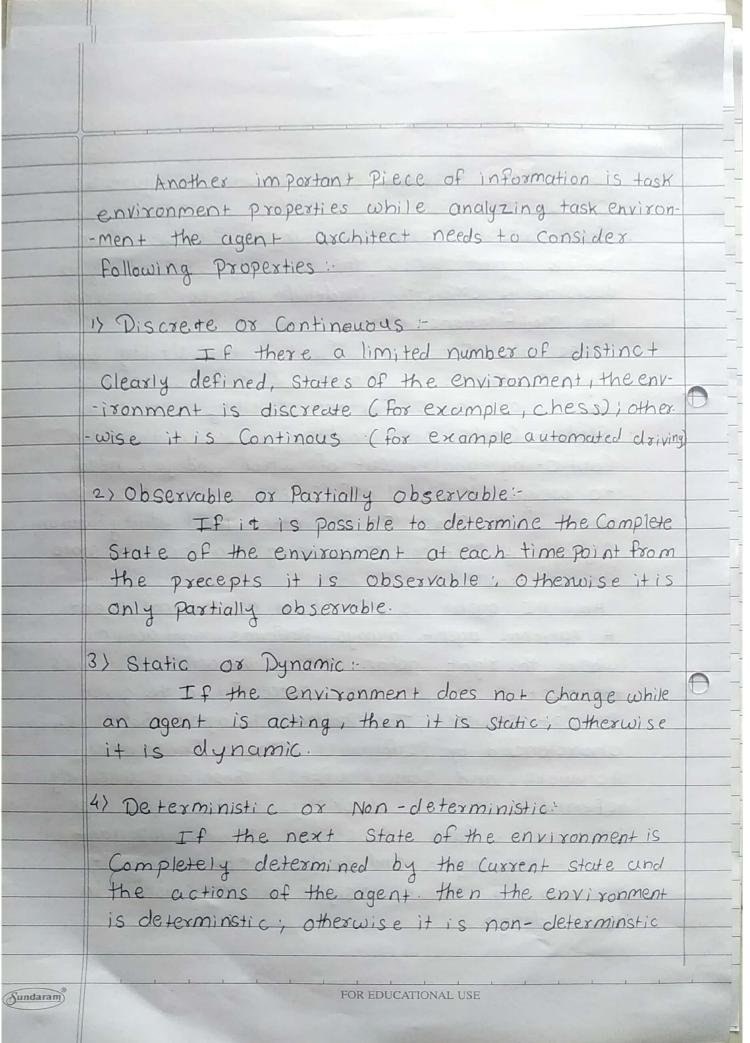
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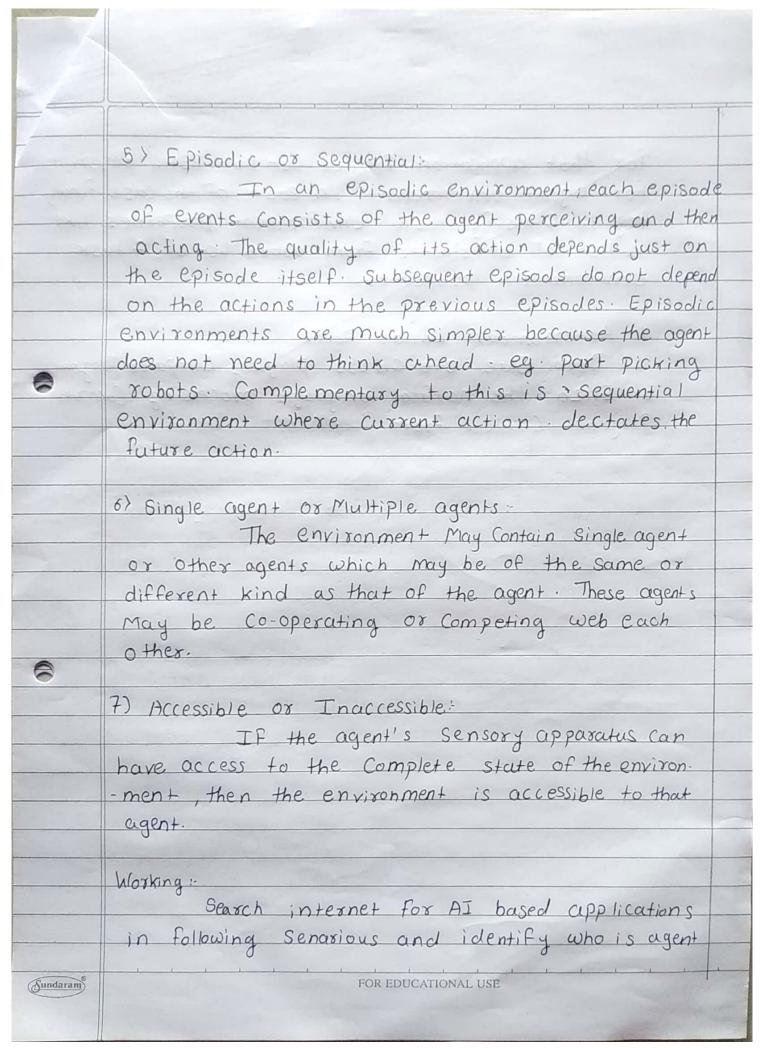


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	for that application. Futher list out PEAs descritors for agent environment in each of the Case. Finally try to classify tosk environment Properties like a list of attributes from above list of seven task environment properties.
AX.	1. Deep Blue chess playing Computer program.
8	Performance Measure: win/lose/draw. Safety of Chess pieces. Pi Safety of king Piece. no. of moves time for each move.
	Environment: chess board, chess pieces. Actualors: Desktop souer, CPU Sensore: chess board.
	Task environment Properties: Discrete, Fully observeble, Static, Determinition, Sequ- ential, Single agent, Accessible.
6	2. ELIZA, the NLP computer program created from 1964 to 1966 at the MLT Artificial intelligence laboratory by Joseph Weizenbaum
	Performance Measure: Understanding user, Maintai- ing Conversation. Environment
	Environment: user program, keyboard, user text inputs, Eliza text, output windard.
	Sensors: use text inputs.
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Task en vironment properties: - Continous; full y observable Static, Detorminstic, sequential Single agent, Accessible 31 Sophia is a Social humanoid robot developed by Hong kong based Company Hanson Performance measure: understanding user, Maintai-- ning Commansation, Social expressiones, response time. Environment: Humans, objects... Auto: Actualors: Arms, mouth 1 legs, Speakex Sensors: Eyes , ears , mic , audio sensors Task environment Properties: Continuous, fully observable, Dynamic, Deterministic, Sequential, single Agent, Accessible 4) Autonmous Luna Cross word Solver performance Measure: Understanding hints, analyzing hidder and visible letters, time to solve Environment: Hints, visible letters, overwo Crossword board. FOR EDUCATIONAL USE ındaram)

and the same		
	Actuators: - Desktop Screen, program.	
	Sensors: - Crossword serboard.	
	Task environment properties: Discrete Pally observable, static,	
	Deterministic, Episodic, Simple agent,	
	Accessible.	
	5) Apples virual assistance siri	
0		
	Performance Measure:	
	Understanding user text and speech	
	Providucing best results, Summering	
	response Speed.	
	Environment: Usex, speech, text	
	Actuators: Mobile Screen, speaker.	
	Sensors: mobile screen, mic, button.	
	Task environment properties:	
0	Continuous, fully observable, static,	
	Deterministic, Episodic, Single agent,	
	Accessible.	
		1
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Sundaram		