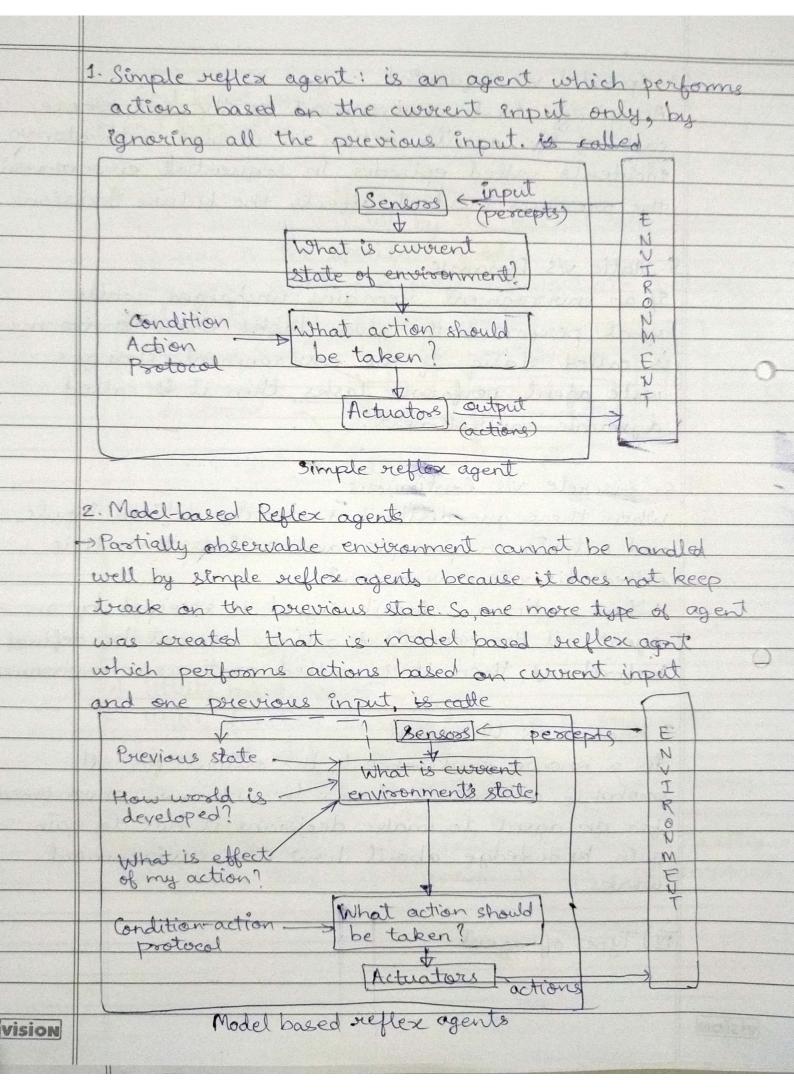
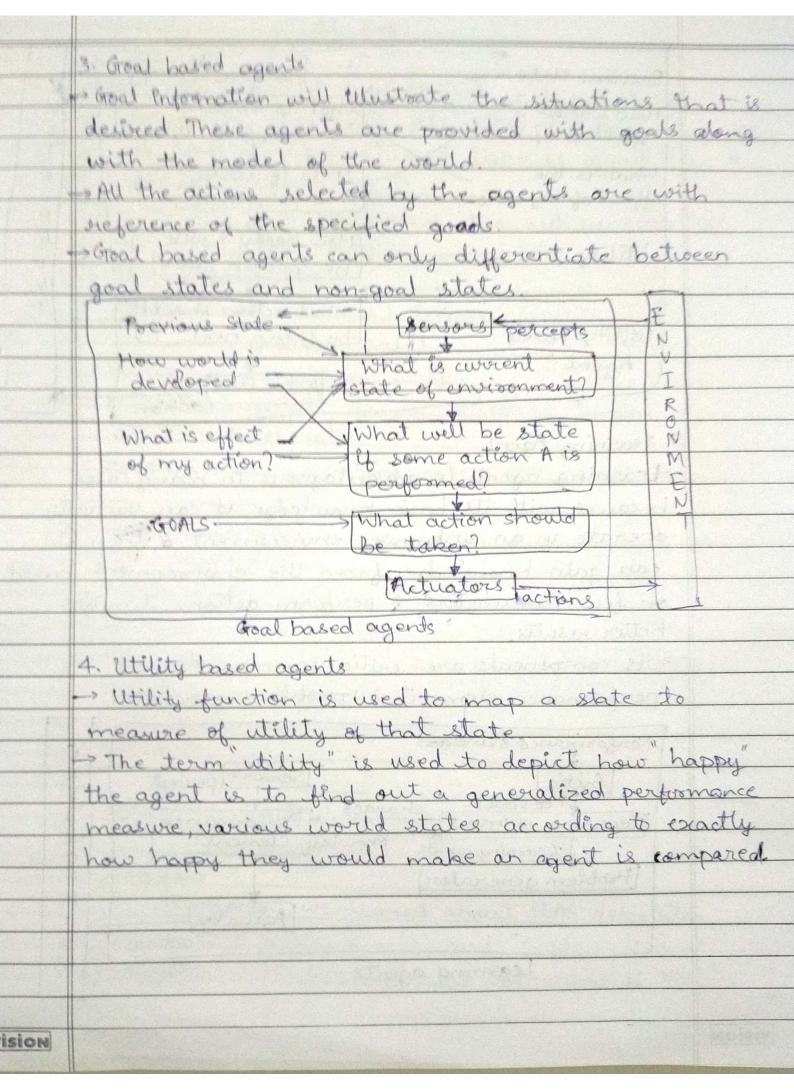
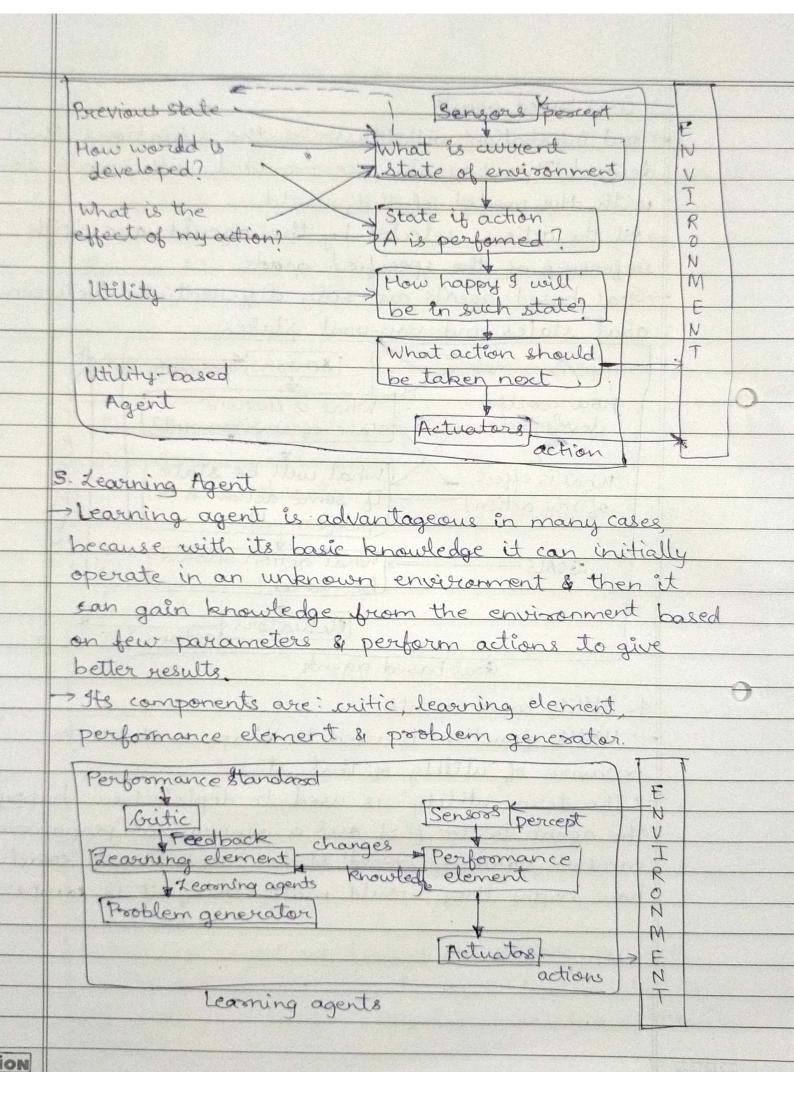
I) Significance of PEAS descriptor: · PEAS (or Performance, measure, environment, actuators sensors) are descriptive measures on basis of which an AI agent or rational agents, are made · Eg: Self driving cars has Performance measure: safety, time, legal drive comfort Environment: Roads, road signs, pedestrions Actuators: Stearing, brake, accelerator, signal, hom Sensors: Camera GPS II) Generic properties of task envisconment 1. Fully v/s Partially - observable Fully observable environments can gather all necessary information required to take actions. Pastially observable environments can't provide errorless or complete information for every internal state as the environment cannot be at any given time. 2. single vs multi-agent whether the agent is operating on its own or in collaboration with other agents decides if a single or multi agent environment is required respectively. 3. Deterministic V/s Storchastic An environment is deterministic if next state can be completely pre-determined based on previous state and action Stoichastic envisonment means indeciveness about actions is enumerated in terms of probabilities. VISION

4. Episodal VA sequential An episode task environment is the one where each of the agent's action is divided into atomic encidents called episodes. In sequential environment the previous incident affects the future decisions 5. Static V/s Dynamic If an environment remains unchanged while agent performs the given tasks than environment is called static. If the environment changes while agent performs tasks, then it is called dynamic environment. 6. Discrete VIs Continuous when there are distinct & dearly defined inputs and outputs ar percepts and actions, then it is ralled discrete environment. When continuous input signal is secceived by an agent, all the percepts & actions cannot be defined beforehand, then it is called continuous environment 4. Known v/s Unknown In a known environment, the output for all probable actions is given. In unknown environment, for an agent to make decisions, it has to gain gain knowledge about how the environment works IV) Types of agent







	Meet D. Patel
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	Task: Select a problem statement relevent to AI.
	Recognize the PEAS descriptor, identify properties
	of task environment and type of agent for the
	selected problem.
	For an AI for exploring the subscribace of
	oceans of mon Titan.
	1. PEAS descriptor
	· Performance measure: images quality, vedio
	quality, safety
	Environment: ocean, water
	· Actuators: mobile driver, steering, brake,
	· Sensors: video, accelerameters, GPS, depth sensor
	sensors. Maea, accelerameters, orts, depin sensor
	2. Jask Environment
	· Fully observable
	· Deterministic
	· Episodic
	· Dynamic
	· Discrete
	· Multi-agent
	· Unknown
	3. Type of agent + Goal-based agent
	grand from paster regarde
*	Conclusion:
	In this experiment, we learn't about PEAS descriptor,
	agents & task envisonments and implemented it
	for problem "AI for exploring subsurface of Titan's
	ocean".
VISION	