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	Tutonial 1 !- Design of Intelligent Agent
	Aim: - TO understand the concept of Agent
	Rational Agent, environment, Task environ-
	ment Descriptors renvironment types.
	Theory: - An Artifical intelligent (AI) systems is
	The Agents act in their environment. An
	agent is anything that can perclive its envi-
	nonment through sensor facts upon that enviro-
	ment through effectors.
	percepts 1
	Effectives
	Environment
	Actions
	Piy: - Al agent with Environment
	agent in particular cun be!
	Helsian agent has severy organs such as
	eyes, ears, vose, rongue and skine panules
	to the sensors, and other organs such as
	hands, legs. Mouth for effectors.

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	Robotic agent replace converus and intraval range finder for the sensors and various motors and actesature for effectors.
	software agent has encoded bit strings of its
	Agent structure can be viewed as a combination of Agent anchitecture and Agent program tigz shows the improtant types of Eigent architecture.
	How lutte aund like now!
	E what actions? Pule meed to do?
	Car simple peffex Agent
	Sensors How is the world citemow? What huppen it I do Action A Chow world envolves, what auton should to do! Etterns Goals

K.G.C.E. Page No.: Karjat - Raigad Date: Sensors HOW wrid LIKE MOW (c) Goal Based Agent sensons happen I an by doing Action At How What actions Inced to do? (d) citicity Barrel Agent Fig 2! - Agent Architecture Types.

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	As seen in fig 2er, simple Reflex argents choose
	actions only based on the current percept only
	They are retional only it a correct decision
	made only on busis of current percept treent
	environment for such agents is tully observable
	model Based tel Retter Agents as shown in tigel
	use a model of the world to choose their actions
	An agent is referred to as furtiment Agent
	A rational agent always performs right actors.
	where the night action mouns the action that
	eurses me argent to be NOOT & Successful in
	given percept sequence
	Another important piece of information
	io task anvisoment properties
	1) Discreate or confinuous of their on Limited
	number of distinct deenly de fined, staked
	of environment, the environment is discreate
	100
-0	2) observable or Acurticially observable it its
	possible to determine for complete state of
	Environment at each time point from the
	pricepts is observable
	3) gratic or Dynamic if the environment does
	not charge with while an agent is acting
	then it's Static
	4) Deterministic or Non-deterministic if the next state
	at the environment is completely determined by current
	State.

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	s) single agent or multiple agents the environment
	many contain single agent or other agents which
	may be of the same or & different kind as that
	of the agent
	6) Accessible or Inciacessible it the agent's sensorry
	appartus com have access to the complete state
	of may be same.
	CV
	working search internet for AI based application
	in tollowing scenarios and identify who is agent
	tor that application. finally my to dossity task
	envisoment properties.
	1) Alexanomous lunar Rover
	2) Deep Blue chess playing computer program
	3) Pliza pre natural language processing computer
	magnum executed from 1964 to 1966 at MIT
	4) Automatic Portofullo Managment
-	5) sophia is a social huxanoid sobot developed
	by Hong kong based company Hamen Robotics
	6) Alphono is a social warned mobot developed by
	Hora koney based company Haveon Robotics
	7) Apples virtual assistance siti
	8) Endurance : A compartion for Demertia patients
	a) cosper: Helping insourances get through thenight
	10) marrel: - Guarding the Galaxy with conic-Busic
	crossavers
	11) Actromated cross word solver.

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