Karjat - Raigad Tutorial No: 01	e No. :
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Tutorial Mo:-01 Tutorial 1:- Design of Intelligent Agent Ain: To understand the concept of Agent
Abstraction by studying defination of Rational Agent, Agent environment itask Environment Descriptors, environment-types. Theory: - An Artipicial Intelligent (AI) system is composed of an agent and its environment. An entitle Agents act in their environment. An Ment through sensor lacts upon that environment through exector. E62202 Percepto cercos Convironment Actions Rig1:- AI agent with fournment Agent in particular canbe!Human agent has sensory organs such as eyes,
ears , nose , tongue and skin parallel to the
sensors, lother organs such as hands, legs, Mouth for effectors

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	Robotic agent replaces converas l'intrared range Finders for the sensors and various Motors
	Finders for the sensors and various Motors
	and actuators for effectors.
. ,	
* 1	80ftware agent has encoded bit 8trings 00 its programs and actions
	programs and actions
1 22	Agent structure canbe viewed as a combination
-	Pig 2 shows the important types of agent architecture
- 1 9	lig 2 shows the important types of agent
	<u>archteeture</u>
	V V V V V V V V V V V V V V V V V V V
	sensors
	2 (MONTO HA)
	S What actions of condition of the
	CRECTORS
L a ju	Ca) Simple Reflex Agreet
	2 Sensors Agent
	How is the world cike on a How world
- 1	7 / / / / / / / / / / / / / / / / / / /
	what napper it I do Alsian Action Act
	bhat actions Inseed to do 1 action do
	Expectors Crows
	(b) Model Based Reflex Agent
	-> Los of berief Hydra

K.G.C.E. Karjat - Raigad Page No.: Date: 8622022 HOW is the world like now emvolves WROTHY actionado phot actions Treed to do. 9 effetors Good Based Agent J 202098 HOWWOMO er 00 ve Whatal actiondo what actions Ineed today

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		As seen in fig 2a, Simple Reflex agents choose
		actions only based on the current percept only.
		They are rational only if a correct decision is
	-	made only on basis of current percept the
		environment for such agents is fully observable
		Model Based Reflex Agents as shown in Fig 26
		use a model of the world to choose their actions
-	-	An AI agent is referred to as Rational Agent
		A rational agent always performs right action.
		where the right action Means the oction that eauses
		the agent to be most succeptul in given percept
		sequènes
		Another important piece of information is task
		environment properties
		D) Discrete or continuouse of ther an cinited
		number of distinct clearly defined, sterter of
		environment, the environment is discrete
		2) Observable or particially observable l'Litis possible! to determine the complete steete of Environment
_		to determine the complete steete of profrongers
-		at each time point from the precepts is observable
15		3) Static or pyranic 12 the environment does not
		3) Static or Dynamic 12 the environment does not Change while an agent is acting other it is steelic
-		a) Deterministic or Non-deterministic If the rext
		Steete Of the environment is completely determine by current steete
		of wired () text
-		

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	6) single agent or Multiple agents The environment
	May contain Single agent or other agents which
	May be of the same of different kind as
	that of the agent
	7) Accessible or Inaccessible 12the agent's sensony
	apportus can have access to the complete
	Steele Of May be same.
	Working search internet for AI based application
	in following scenarios & identify who is agent
	for that application. Finally toy to classify task
	environment properties
	i) Autonomous war lover
	2) Deep Blue Chess playing computer program
	3) tura the natural language proversing computer
	program created from 1964 to 1966 out MTT
191	a) Autonatic Portofollio management
2	5) sophia is a social humanoid robot developed
	by Hong kong based company Hanson Robotics
	6) Alpho Go is a social rumonoid robot developed by
	Horgkong based company. Hanson Robotics
	7) Applee virteral assistence six
	8) Endurance: A companion for Dementia patients
	9) Cosper: Helping Insormanics Gret through the night
	10) Morver: Gluarding the Gralavy with conic-Book
	Crossovers
	11) Automated Cross word solver.