1. a) Thinking Humanly

"The exciting new effort to make computers think machines with minds, in the full and literal serve."

[The automation of] activities that we associate with human thinking, activities kuch as decision-making, problem solving, learning....

by Thinking Rationally

"The study of mental faculties through the use of computational models"

"The study of the computations that make it possible to perceive, reason and act"

c) Acting Humanly

"The art of creating machines that perform functions that require intelligence"

"The study of how to make computers do things at which, at the moment, people are better".

d) Acting Rationally

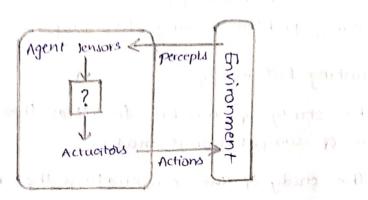
Computational Intelligence is the study of the design of intelligent agents"

"AI... is concerned with intelligent behaviour in antifacts".

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3. Agents and Environments is we sell grown to

An agent is anything that can be viewed as perceiving its environment through (me) sensors and acting upon that environment through actuators



A human agent has eyes, ears and other organs for sensors and hands, legs, vocal tract and so on for actuators might

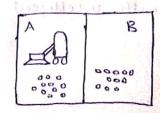
A robotic agent have cameras and infrared range finders for sensors and switches, motors etc.

for actuators

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Example for Agent & Environment

Vaccum-cleaner world



suppose this particular world has just two locations A and B.

The vaccum agent perceives which square it is in and whether there is dirt in the square

It can be to move left, right, suck up the dirt or do anything.

One very simple agent Function is

If the current square is dirty, then suck;

Otherwise move to the other square.

6. production rules for solving water jug probelem of 2 Jugs. (one Jug has 3 capacity other Jug has 4 capacity)

,		, ,	other Ju	ig has 4 capacity)
5 NO	Intial state	condition		Description
1.	(n,y)	if x<4	(4, 4)	Fill the 4 gallon Jug
2.	(n,y)	if yc3	(24,3)	fill 3 gallon
3-	(n,y)	il 70>0		pour some watch out of 4 gallon
И.	(n, y)	if yoo	(71,y-d)	pour some water out of 3 gallon
5.	(7,y)	il xoo	(0,4)	· fmpty 4 gallon
6.	(x, y)	if 470	(7,0)	frupty 3 gallon
7.	(4,4)	if x+y24 & y>0	(4,4-(4-7	
8-	(2,4)	il 71+423 and 7120	(x -(3-y),	3) pour from 4 to 2 gallon
9,	(21,19)	12 x+y =4 2 y >0	(x+y,0)	pour all water from 3 to 4
	(2,4)	1+ x+y = 3 &	(0,x+y)	pour all water from 4 to 3

Soluti	on of water state 2 ga	jug 3 g	allon gallo	, 4 gallon for n (2, y) frod
8.10	4 gallon	3gou	on	Rule Housea
١.	O	Carrier D	e A	Inbal state
2		3		Rule 110-2
3.0	11 (3)	100		red.c
٠ ٧.	3	3		Rule no- 2
	ч			Rule no-7
	P . 0		111	Rule no-5
ge pe	2 10		0.	Rule no-9

one reaching the Thattempt, we reach a state which is our goal state. Therefore at this stage, our problem is solved.

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(2, 1) of 11 (2,10).