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a) Design an Intelligent system using PEAS

- Medical diagnosis system:

Performance: Healthy patient, menemize cost, lawsuits

Environment: Staff, hospetal, patient

Actuators: Pisplay (queetione, tests, treatments)

Sensons: Keyboard, Mouse, Touch Screen.

- Vaccum cleaner Agent:

Performance: Healthinger phreenby Security, battery life, efficiency,

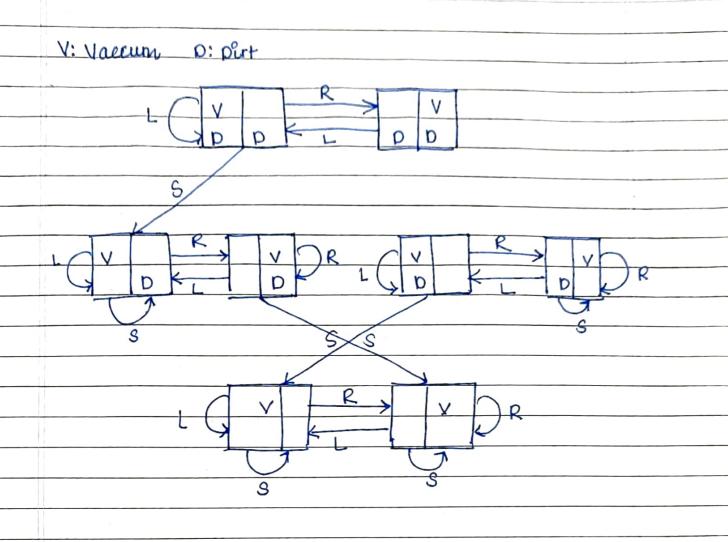
Environment: Room, table, carpet, floor

Actuators : wheels, brushes of different kind

sensors: Camera, cliff sensor, bumpsensors, dirt detection,

by Problem definition with state space representation. -> Vaccum cleaner problem The problem can be formulated as: The state is determined by both agent location and the dest locations. The agent is in one of the two locations. each one of which night or night not contain det. Thus there are 2 x22 = 8 possible states. Westal state: Any state can be designated as the initial state. Actions: There are 3 actions: left, right and such larger environments may have down and up. The actions have their expected effects, expect left in moving the leftmost square, moving right in the rightmost square and sucking in a clean square have no effect. This checks whether all the squares are clean Each step costs 1, so path cost is equal to number of steps

Haldi: in



8 purcle problem:
The problem is formulated as a board of 3×3 consists with eight numbered tiles and a blank spaces. A tile adjacent to the blank space can slide into the space. The object is to reach a specified goal state.

	7	2	4			2	4		
	5		6		-3-	155	6	`	
	8	3	-		7	8			
Stand State				Goal Hate					

States :

The state is determined by both agent location and the dest locations. The agent is in one of the two locations. each one of which might or night not contain det thus there are ex22 = 8 possible states.

Irlital state:

State:
Any state can be designated as the initial state.

Actions: There are 3 actions: left, right and suck larger environments may have down and up.

Transition model:

The actions have their expected effects, expect left in moving the leftmost square, moving right in the rightmost square and sucking in a clean square have no effect.

This checks whether all the squares are clean

Each step costs 1, so path cost is equal to number of steps

→	
- I Right S	7 2 3
8 9 1	5 4 6
	lup
	J. of
	7 2 3
8 1 6 8 1 6	8 1 6
Up	
J. op	
2 3 right 2 3 right	2 3
8 1 6 8 1 6	7 5 4
8 1 6 8 1 6	8/1/8/
	down
234 234	2 3 4
7 1 5 (down 7 5 < left	7 5
[8] [6]	8 1 6 -
Left	
234 234 200	2 3 4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 3 4
86 786	7 8 6
	ap
Right 1 2 4 down 2 4 left 1 3 5 5	2 4
7 8 6 7 8 6	7 8 6
PTO	1 0 10 1