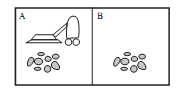
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***CSL5402 Artificial Intelligence Lab***

***Lab 4 Assignment***

**List of Experiments:**

1. (a) WAP to implement a performance-measuring environment simulator for the following vacuum-cleaner world diagram. Your implementation should be modular so that the sensors, actuators, and environment characteristics (size, shape, dirt placement etc.) can be changed easily.



(b) In the addition of the above program (i.e., in 1(a)), WAP to implement a simple reflex agent for the vacuum environment. Run the environment with this agent for all possible initial dirt configurations and agent locations.

1. WAP to implement a model-based reflex agent for the automatic taxi driver environment. Run the environment with this agent for all possible assumptions made by you which makes it model-based.
2. WAP to implement a goal-based reflex agent for the automatic taxi driver in a road map environment. Run the environment with this agent for all possible assumptions made by you which makes it goal-based agent.