Homework - 002

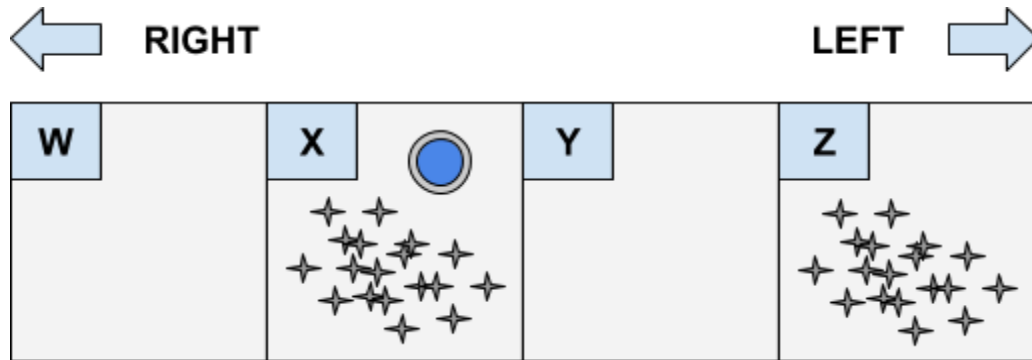## Design a 4 Tile Vacuum Cleaner Robot (Roomba V 0.5) based on Model Based Reflex Agent schema.

Fig : 4 Tile Environment

Deliverables

1. Write down the Percepts and Actions needed for 4 tile vacuum cleaner.
2. Draw the Decision Tree (or State Tree) for each step until all the tiles cleaned and show the performance measure to choose the right Action. Additionally write pseudo-code for the Action based on percepts and states on each step.
3. Finally write the Action function for 4 tile Vacuum Cleaner Robot.

Submission Format

● Hard copy, according to previously shared template.