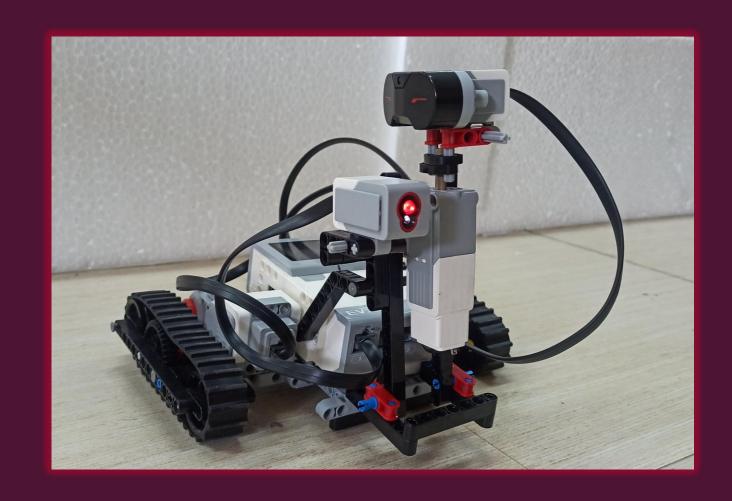
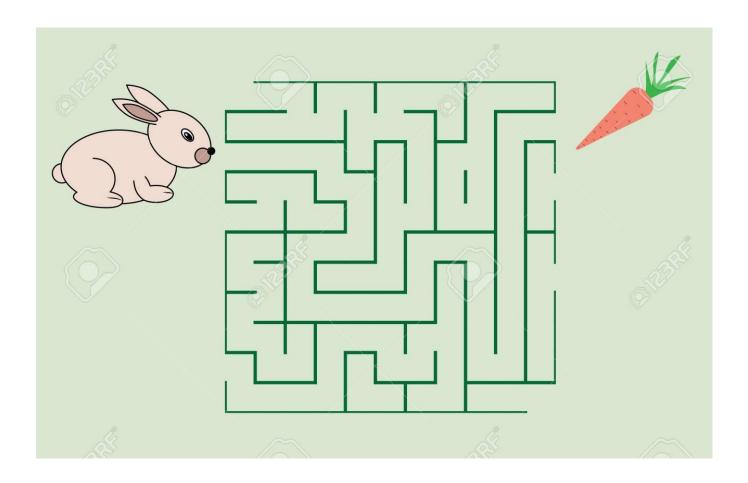
MAZE SOLVING LEGO TRACKER



M.TECH SCA - IITG

WHAT IS A MAZE?

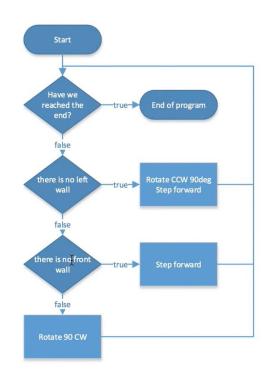


"A maze is a path or collection of paths, typically from an entrance to a goal"

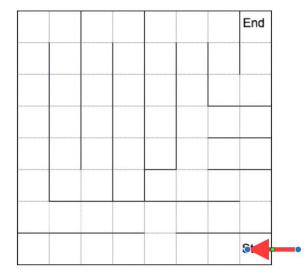
HOW DO WE SOLVE MAZE

The following flowchart describes how to move through a perfect maze using the left hand rule algorithm.

- I. Random Mouse Algorithm
- 2. Wall Follower Algorithm (Left or Right)
- 3. Pledge Algorithm
- 4. Tremaux's Algorithm



Sample Perfect Maze



Source:

WHAT ARE WE HAVING NOW

- A modified LEFT algorithm
- Minimal number of sensors
- If "Narrow Dead End" take a sharp U-turn
- Always keep a safe distance from the wall



Colour sensor



IR sensor



EV3 Brick



Large Motor







ROBOT IN ACTION

Video Link.

https://drive.google.com/file/d/ I HxgdRcCBR
BfCeNd7uom_RddVcxjhWT33/view?usp=sh

aring

Github Link:

https://github.com/nikhilnnk/MazeSolving

TEAM















THANK YOU SO MUCH!!