

Assignment 01 - Turtlesim Simulation

Objective:

- Enhance your understanding how information is exchanged between different components in a mobile robot
- Improve programming ability for controlling a mobile robot

Tasks:

Based on the previous turtlesim lab works, you need to complete the following two tasks by modifying the python code to satisfy the new requirements.

- 1) Re-program the turtle to drive in a square
- 2) Re-program the turtle to drive in a figure of 8

Hint: There are multiple ways of achieving these tasks.

A simple solution is to publish a direction for a duration of time.
e.g., publish going forward for 1s, then turning for 1s etc....

A more complex solution is to set goals, and to compare the current pose position with the desired pose position.

Note: This is a formative assessment. Feedback may be provided if necessary.
The outcome of this assessment has no contribution to your final grade.

Reference:

<http://wiki.ros.org/turtlesim/Tutorials/Moving%20in%20a%20Straight%20Line>

<http://wiki.ros.org/turtlesim/Tutorials/Rotating%20Left%20and%20Right>

<http://wiki.ros.org/turtlesim/Tutorials/Go%20to%20Goal>