

## **MEEM 4707: Autonomous system**

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**Lab - 2** 

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## Problem 1

Following are incorrect ROS commands. Rearrange command keywords in the correct order:

- 1. package\_name node\_file.py rosrun rosrun package\_name node\_file.py
- 2. launch\_file.launch roslaunch package\_name roslaunch package\_name launch\_file.launch

## Problem 2

What is the difference between rosrun and roslaunch commands?

Rosrun, a command from the rosbash module, is used for running programs from the shell (BASH). Roslaunch, however, is used to launch one or more ROS nodes.

- 1. Write the command to run a python node named: "test\_node.py" present in a ROS package named: "test\_package"
  - rosrun test\_package test\_node.py
- 2. Write the command to run a launch file named: "test.launch" present in a ROS package named: "test\_package"
  - roslaunch test\_package test.launch

## Problem 3

I spent all night trying to get ROS running, but I'm hitting issues specific to my computer.

- 1. Move the robots using teleop command and capture the motion (You may use snipping tools. Do not take a photo of screen with a phone.)
- 2. Write the maximum speed of the turtlebot.
  - Note: The robot can be moved by pressing the keys only if the corresponding window terminal running the teleop command is active