

## Assignment 4

### Topics : Publisher,Subscriber,Turtlebot

- Create a folder *scripts* in the source folder of your turtlebot workspace
- Write a publisher to make your turtlebot move in a circular trajectory.  
Launch your turtlebot simulation by typing  
*roslaunch turtlebot3\_gazebo turtlebot3\_empty\_world.launch*  
*Your Code:*
- Update the above code to include a subscriber module which prints the x and y coordinate values as the turtlebot does the circular trajectory  
*Your Code:*
- Write a python node which makes the turtlebot move in a straight line for a duration of 5 sec and continuously displays the distance moved from the start.  
*Your Code:*