

# Intelligent Robotics Systems

## Exercise 4 - ROS II

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### **Gazebo simulation**

Create an interface (simple textual menu) for the Turtlebot in Gazebo, which does the following:

- a.) Drive the Turtlebot straight according to a distance input from the user.
- b.) Turn the Turtlebot in place according to an angular input from the user.
- c.) Drive the Turtlebot to a location in a given map specified by user input of the  $x, y$  coordinates in the map frame. (*Hint:* for this section use chapters 12-13 in the Turtlebot e-manual and chapters 9-10 in the ROS book).