Task 0

- Create a launch file, that launches:
- 2 turtlesim_node from package turtlesim
- 1 turtle_teleop_key from package turtlesim
- You have to change the subscribed topic for one turtlesim, so teleop can drive only another turtlesim

see http://wiki.ros.org/roslaunch/XML/remap for details

- git clone https://gitlab.com/osll/Duckietown-Software.git
- cd Duckietown-Software
- make
- cd catkin ws
- catkin make
- cd
- ssh-keygen -t rsa
- cat .ssh/id_rsa.pub | ssh ubuntu@duck.local 'cat >> .ssh/authorized keys'
- In every terminal:
 - export ROS_MASTER_URI="http://duck.local:11311"
 (instead of duck put duck2 or duck4)
- To launch bot use ./Duckietown-Software/utils/start_master_apriltags_any_intersection.sh duck

Task 1

- Create a publisher that allows robot to move forward.
- Robot is listening the topic duck/car_cmd_node/cmd
- to find the message_type use rostopic info duck/car_cmd_node/cmd use rosmsg show to find the fields of a message

The template for task 1

```
#!/usr/bin/env python
import rospy
from duckietown_msgs.msg import ***

if __name__ == '__main__':
    rospy.init_node('pub')
    pub = rospy.Publisher("duck/car_cmd_node/cmd", ***, queue_size=10)

# fill msg
    pub.publish(msg)
```

Task 2

Make a robot to follow some trajectory

 You can use the code from task_0 from the very first lesson (code in python without ROS) to keep the current position of the robot or you can harcode the trajectory and experimentally debug it.