# Week 11 – ROS Lab Exercise
(4ᵗʰ Assignment – 30%)

For this assignment you need to create two new nodes with the following features:
- The first node number_publisher will publish to a topic called /number with message type which is : std_msgs/Int64
- (you can find to google – it is a data field with this number of data)
- The second node number_counter contains both a subscriber and a publisher. It will subscribe to the topic number and it will publish to the /number_count
- You can create the two nodes in any language you want, the two nodes is not necessary to be in the same language.
- Furthermore, update the publishers to be anonymous.
- With the commands you have learnt (rostopic, rosnode, isg_graph) and by increasing the number of publishers justify your comments on what you observe.

Publisher	std_msgs/Int64	Subscriber & Publisher	std_msgs/Int64
number_publisher	→ /number →	number_counter	→ /number_count
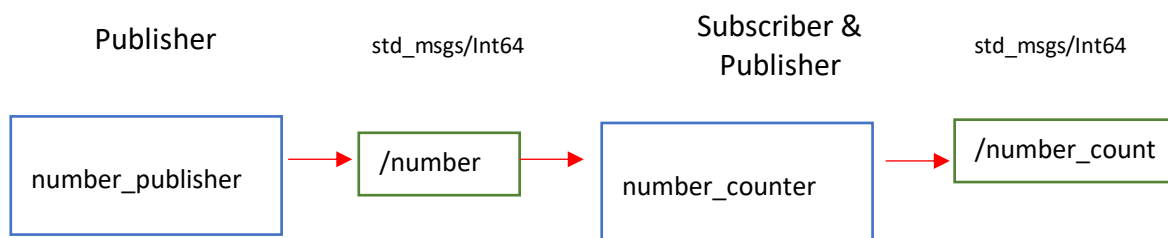
Submission (group/individual) guidelines:
- Submit in separate files:
  1. your code and
  2. the video of your solution, showing each of your code running and the results within the terminal window.

Marking Criteria:
(if a code does not run then it will not receive any marks)

Development	Points/100
The first node number_publisher will publish to a topic called /number with message type which is : std_msgs/Int64	20
The second node number_counter contains both a subscriber and a publisher. It will subscribe to the topic number and it will publish to the /number_count	40
Furthermore, update the publishers to be anonymous.	10
With the commands you have learnt (rostopic, rosnode, isg_graph) and by increasing the number of publishers justify your comments on what you observe.	30