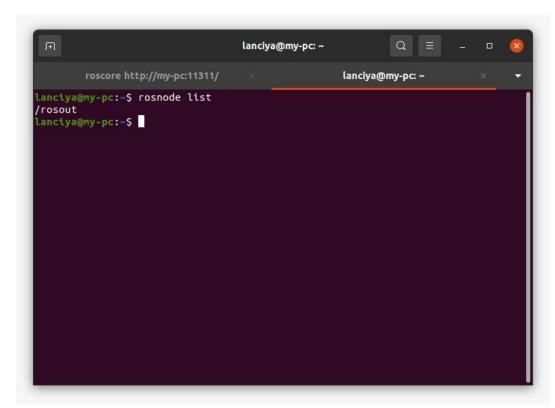
ROBOTICS LAB ASSIGNMENT 1

LANCIYA L M1 RAA ROLL NO:09

ANSWERS

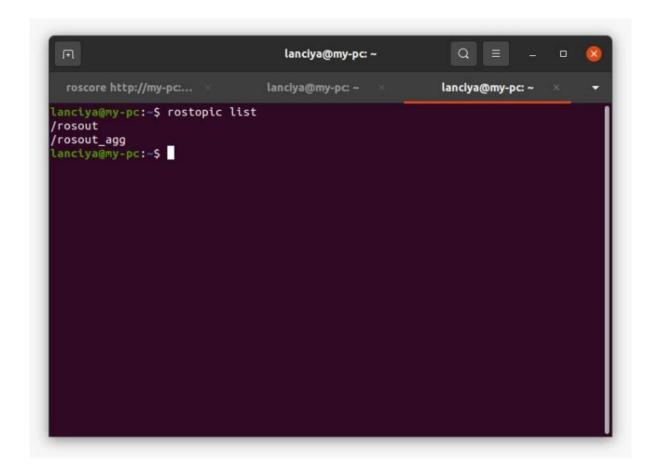
1.ROS Nodes

a) /rosout

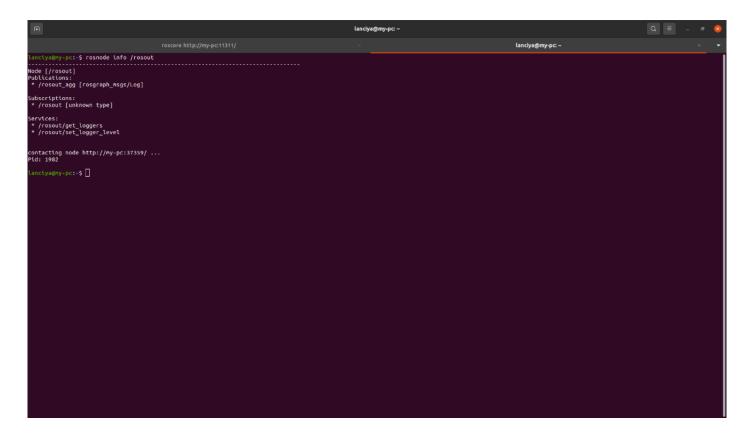


b) The /rosout node is used for subscribing, logging, and republishing the messages. It serves as a centralized message topic for logging and monitoring within a ROS ecosystem. It allows various nodes in the system to publish log messages, categorized by severity levels, such as INFO, WARNING, ERROR, and FATAL. These log messages provide essential information about the system's operation, making it easier for developers and operators to diagnose issues, track events, and assess the system's health. ROS tools and graphical interfaces can subscribe to /rosout to display and analyze log messages, facilitating troubleshooting and system analysis.

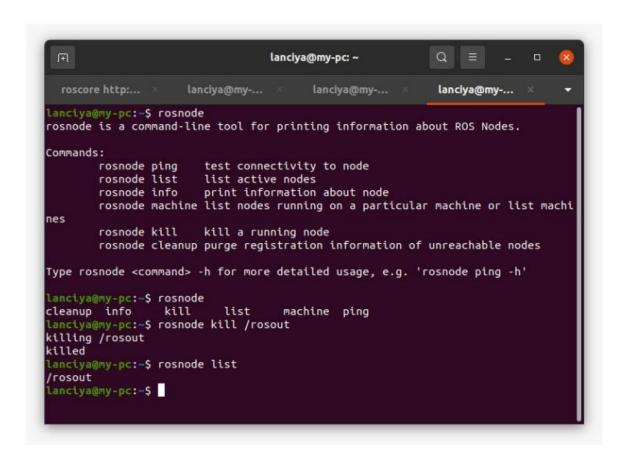
c) /rosout /rosout_agg



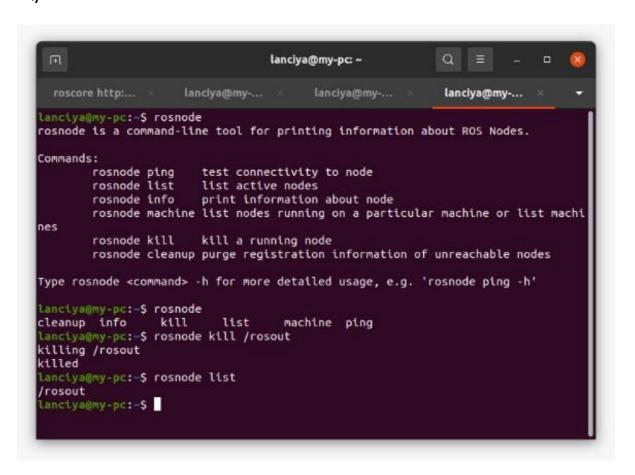
- d) */rosout [unknown type]
- $e) \ \ */rosout_agg[rosgraph_msgs/Log]$
- f) */rosout/get_loggers */rosout/set_logger_level



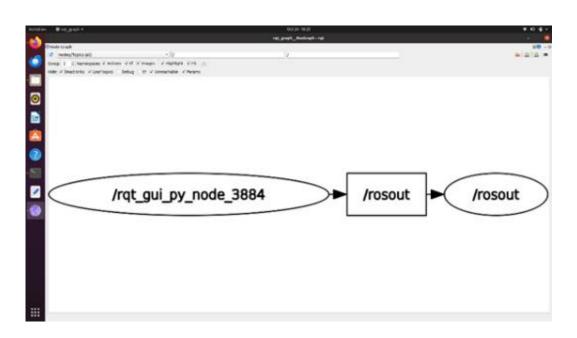
g) Killing of node /rosout is done successfully and the when we again check for the current running node, we got /rosout.



h)		
	Clean up	 Display information about a node that cannot be contacted immediately. Prints list of unreachable nodes which has to be confirmed.
		Prints list of unreachable nodes which has to be confirmed.
	Info	- Display information about a node including subscriptions and publications.
	Kill	-To kill a running node
	List	-Display a list of current nodes.
	Machine	-List nodes running on a particular machine.
	Ping	-Test connectivity to the node

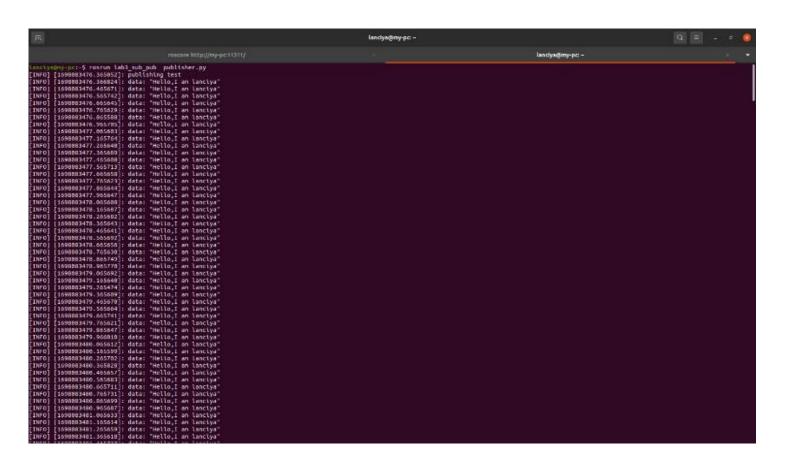


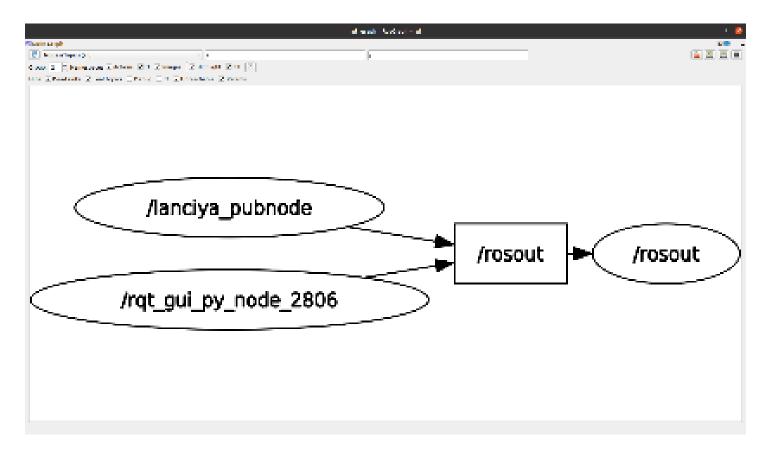
j)



2.ROS Publisher Node

a)

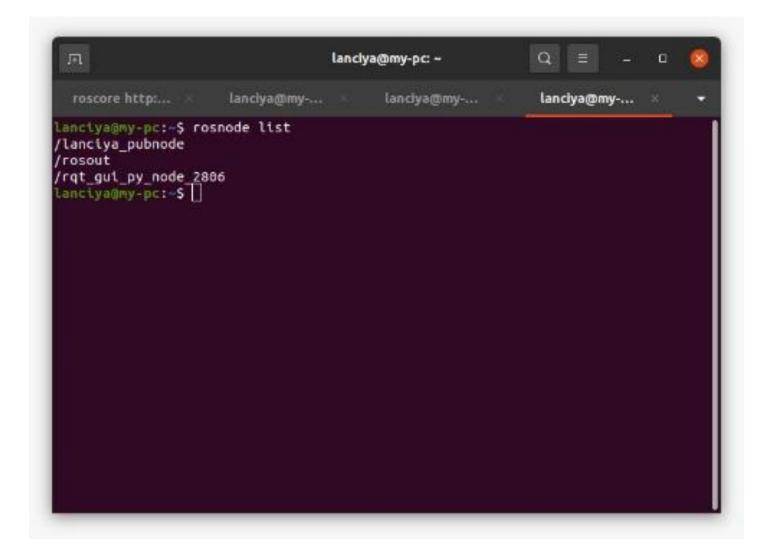


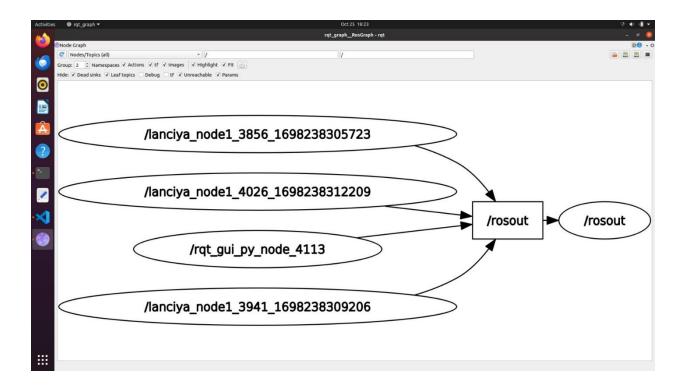


OBSERVATIONS

From the rqt graph obtained here, we observed that the nodes /lanciya_pubnode and /rqt_gui_py_node_2806 are sending messages/data to the node /rosout through the /rosout topic.

c) /lanciya_pubnode
 /rqt_gui_py_node_2806
 /rosout



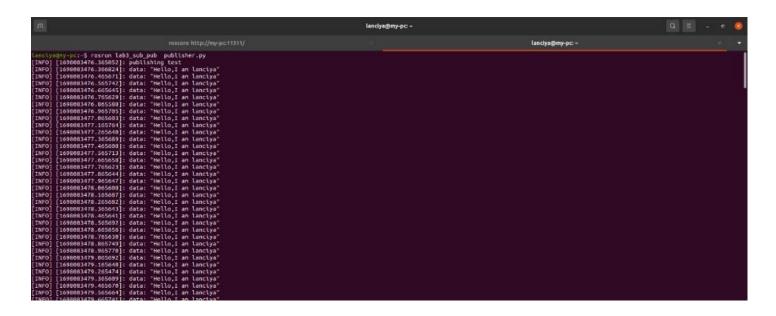


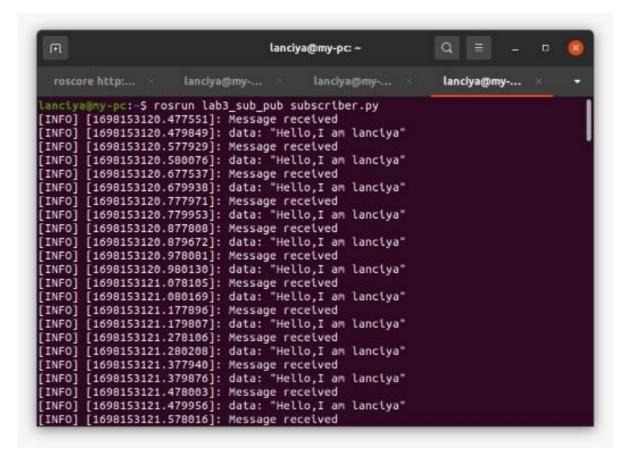
OBSERVATIONS

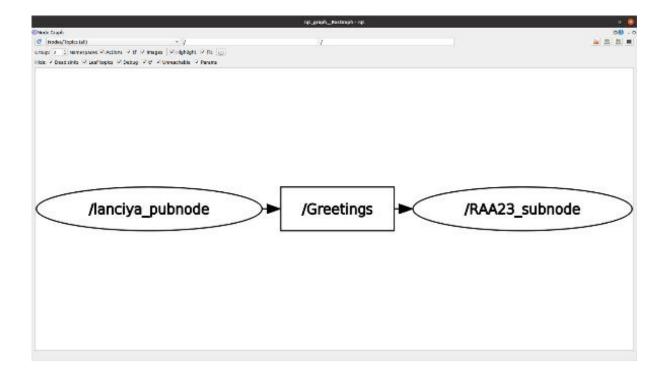
From the rqt graph obtained here, we observed that, currently 3 publisher nodes are communicating with the /rosout through the /rosout topic.

3.ROS Subscriber Node

a)







OBSERVATIONS

From the rqt graph obtained here, we observed that the publisher node ie, /lanciya_pubnode sends message data to the subscriber node ie, /RAA23_subnode through the topic ie, Greeting