

Lab 2 – Exercise

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Exercise: To create a launch file to launch publisher and subscriber nodes.

Code Execution and analysis:

Message displayed: Greetings from COBOT

```
from launch import LaunchDescription
from launch_ros.actions import Node
def generate_launch_description():
    return LaunchDescription([
        Node(
            package='my_package',
            executable='publisher',
            output='screen'),
        Node(
            package='my_package',
            executable='subscriber',
            output='screen'),
    ])
```

The screenshot displays the execution of a ROS2 launch file. On the left, a terminal window shows the output of the launch process, including the message "Greetings from COBOT" being received by the subscriber node. On the right, the rqt_graph interface is shown, displaying a graph with two nodes: /publisher and /subscriber, connected by a topic named /robot_news. The terminal window also shows the command "rqt_graph" being executed in the terminal.

Conclusion: The creation and execution of a launch file to launch publisher and subscriber nodes has been successfully implemented.