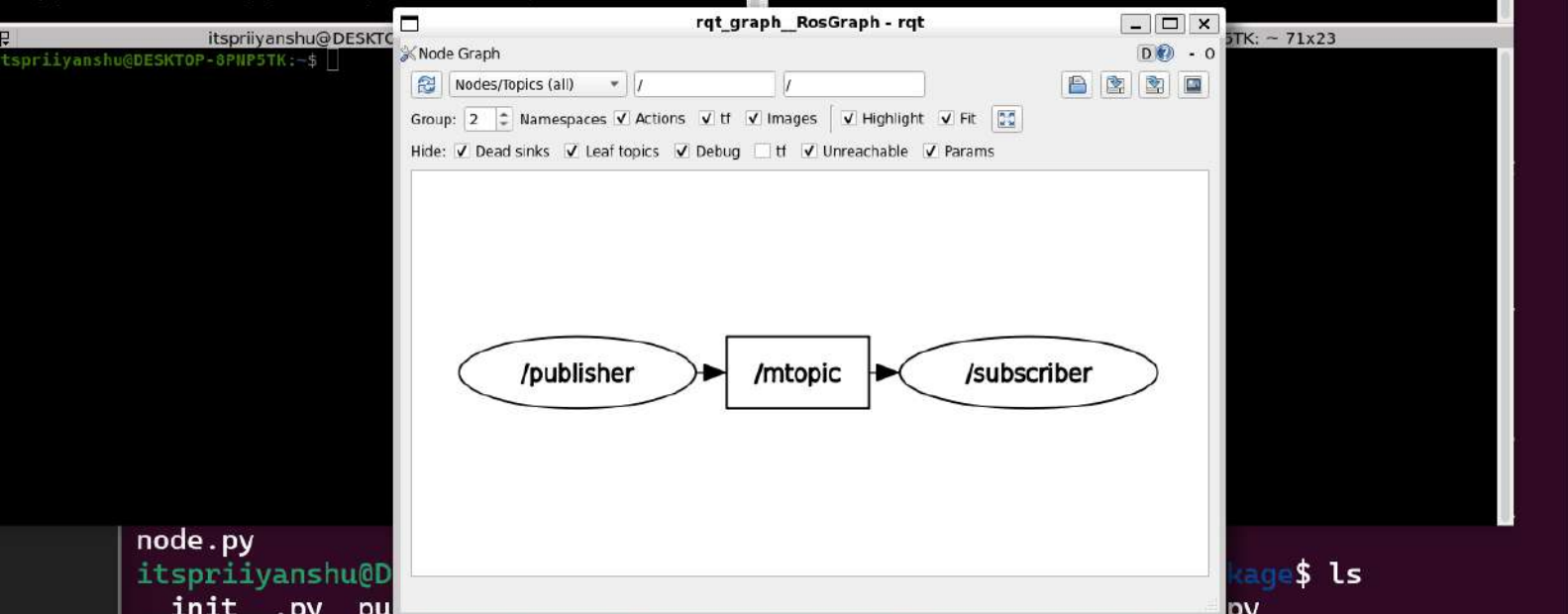


```
itspriiyanshu@DESKTOP-8PNP5TK: ~
[1744466048.267219694] [subscriber]: I heard: "Hello, world! 93"
[1744466049.264686881] [publisher]: Publishing: "Hello, world! 94"
[1744466049.265209088] [subscriber]: I heard: "Hello, world! 94"
[1744466050.291024123] [publisher]: Publishing: "Hello, world! 95"
[1744466050.291748878] [subscriber]: I heard: "Hello, world! 95"
[1744466051.309426842] [subscriber]: I heard: "Hello, world! 96"
[1744466051.309967259] [publisher]: Publishing: "Hello, world! 96"
[1744466052.264376118] [subscriber]: I heard: "Hello, world! 97"
[1744466052.264865260] [publisher]: Publishing: "Hello, world! 97"
[1744466053.264063461] [subscriber]: I heard: "Hello, world! 98"
[1744466053.264522810] [publisher]: Publishing: "Hello, world! 98"
[1744466054.259578267] [subscriber]: I heard: "Hello, world! 99"
[1744466054.260302601] [publisher]: Publishing: "Hello, world! 99"
[1744466055.298014874] [publisher]: Publishing: "Hello, world! 100"
[1744466055.298592633] [subscriber]: I heard: "Hello, world! 100"
[1744466056.266200493] [publisher]: Publishing: "Hello, world! 101"
[1744466056.266820737] [subscriber]: I heard: "Hello, world! 101"
[1744466057.277845591] [publisher]: Publishing: "Hello, world! 102"
[1744466057.278134558] [subscriber]: I heard: "Hello, world! 102"
[1744466058.270174242] [publisher]: Publishing: "Hello, world! 103"
[1744466058.270680648] [subscriber]: I heard: "Hello, world! 103"
[1744466059.270114668] [publisher]: Publishing: "Hello, world! 104"
[1744466059.270576343] [subscriber]: I heard: "Hello, world! 104"
[1744466060.263542461] [publisher]: Publishing: "Hello, world! 105"
[1744466060.264430922] [subscriber]: I heard: "Hello, world! 105"

itspriiyanshu@DESKTOP-8PNP5TK: ~ 71x24
itspriiyanshu@DESKTOP-8PNP5TK:~$ source ~/Ros_assign/install/setup.bash
rqt_graph
0StandardPaths: wrong permissions on runtime directory /run/user/1000/,
0755 instead of 0700
```



```
node.py
itspriiyanshu@DESKTOP-8PNP5TK:~$
__init__.py publisher_node.py runner_node.py subscriber_node.py
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package/my_package$ cs ..
Command 'cs' not found, but can be installed with:
sudo apt install csound
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package/my_package$ cd ..
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package$ ls
my_package package.xml resource setup.cfg setup.py test
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package$ vim setup.py
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package$ vim runner_node.py
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package$ ls
my_package package.xml resource setup.cfg setup.py test
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package$ cd my_package/
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package/my_package$ ls
__init__.py publisher_node.py runner_node.py subscriber_node.py
itspriiyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package/my_package$ vim runner_
node.py
```



```
import rclpy
from rclpy.node import Node
from std_msgs.msg import String

class SubscriberNode(Node):
    def __init__(self):
        super().__init__('subscriber')
        self.subscription = self.create_subscription(
            String,
            'mtopic',
            self.listener_callback,
            10)

    def listener_callback(self, msg):
        self.get_logger().info(f'I heard: "{msg.data}"')

def main(args=None):
    rclpy.init(args=args)
    node = SubscriberNode()
    rclpy.spin(node)
    node.destroy_node()
    rclpy.shutdown()
```

~  
~

```
import rclpy
from rclpy.executors import MultiThreadedExecutor
from my_package.publisher_node import PublisherNode
from my_package.subscriber_node import SubscriberNode

def main(args=None):
    rclpy.init(args=args)

    publisher = PublisherNode()
    subscriber = SubscriberNode()

    executor = MultiThreadedExecutor()
    executor.add_node(publisher)
    executor.add_node(subscriber)

    try:
        executor.spin()
    finally:
        publisher.destroy_node()
        subscriber.destroy_node()
        rclpy.shutdown()
```

```
~
~
~
~
~
```

```
itspriyanshu@DESKTOP-8PNP5TK:~/Ros_assign/src/my_package/my_package$ tree
```

```
.
├── __init__.py
├── publisher_node.py
├── runner_node.py
└── subscriber_node.py
```

```
0 directories, 4 files
```