

Proof of Completion

Task2_Step8

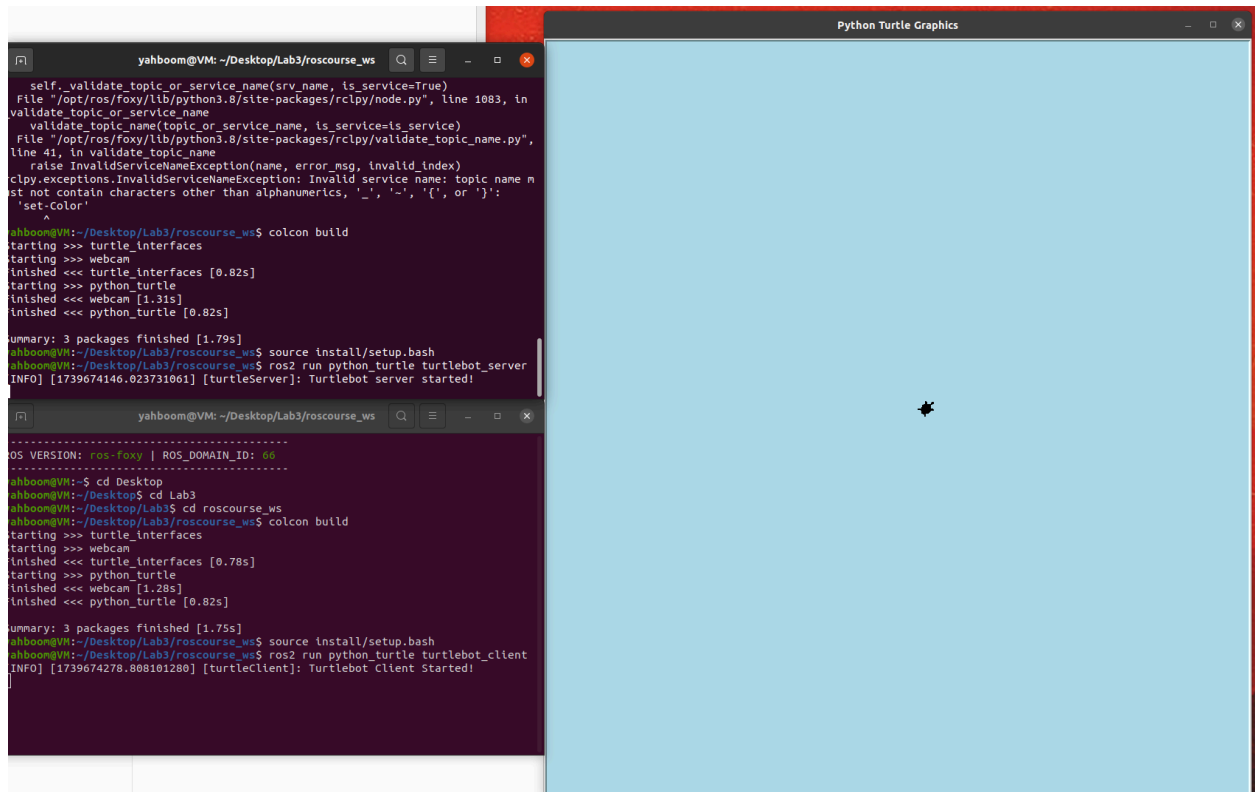
```
yahboom@VM:~/Desktop/Lab3/roscourse_ws$ colcon build --symlink-install
Starting >>> webcam
Finished <<< webcam [3.82s]

Summary: 1 package finished [4.78s]
yahboom@VM:~/Desktop/Lab3/roscourse_ws$
```

Task3_Step22

```
yahboom@VM:~/Desktop/Lab3/roscourse_ws/src/turtle_interfaces$ ros2 interface show
w turtle_interfaces/msg/TurtleMsg
string name
geometry_msgs/Pose turtle_pose
string color
yahboom@VM:~/Desktop/Lab3/roscourse_ws/src/turtle_interfaces$ ros2 interface show
w turtle_interfaces/srv/SetPose
geometry_msgs/PoseStamped turtle_pose
---
int8 ret
yahboom@VM:~/Desktop/Lab3/roscourse_ws/src/turtle_interfaces$ ros2 interface show
w turtle_interfaces/srv/SetColor
string color
---
```

Task4_Step7



Task4_Step16

```
File "/opt/ros/foxy/lib/python3.8/site-packages/rcldpy/node.py", line 1083, in
_validate_topic_or_service_name
    validate_topic_name(topic_or_service_name, is_service=is_service)
File "/opt/ros/foxy/lib/python3.8/site-packages/rcldpy/validate_topic_name.py",
line 41, in validate_topic_name
    raise InvalidServiceNameException(name, error_msg, invalid_index)
rcldpy.exceptions.InvalidServiceNameException: Invalid service name: topic name m
ust not contain characters other than alphanumerics, '_', '-', '{', or '}':
'set-color'
A

yahboom@VM: ~/Desktop/Lab3/roscourse_ws$ colcon build
Starting >>> turtle_interfaces
Starting >>> webcam
Finished <<< turtle_interfaces [0.82s]
Starting >>> python_turtle
Finished <<< webcam [1.31s]
Finished <<< python_turtle [0.82s]

Summary: 3 packages finished [1.79s]
yahboom@VM: ~/Desktop/Lab3/roscourse_ws$ source install/setup.bash
yahboom@VM: ~/Desktop/Lab3/roscourse_ws$ ros2 run python_turtle turtlebot_server
[INFO] [1739674146.023731061] [turtleServer]: Turtlebot server started!
[INFO] [1739674659.657183862] [turtleServer]: Turtle color set: red

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ROS VERSION: ros-foxy | ROS_DOMAIN_ID: 66
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yahboom@VM:~$ cd Desktop
yahboom@VM:~/Desktop$ cd Lab3
yahboom@VM:~/Desktop/Lab3$ cd roscourse_ws
yahboom@VM:~/Desktop/Lab3/roscourse_ws$ colcon build
Starting >>> turtle_interfaces
Starting >>> webcam
Finished <<< turtle_interfaces [0.78s]
Starting >>> python_turtle
Finished <<< webcam [1.28s]
Finished <<< python_turtle [0.82s]

Summary: 3 packages finished [1.75s]
yahboom@VM:~/Desktop/Lab3/roscourse_ws$ source install/setup.bash
yahboom@VM:~/Desktop/Lab3/roscourse_ws$ ros2 run python_turtle turtlebot_client
[INFO] [1739674278.808101280] [turtleclient]: Turtlebot Client Started!

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yahboom@VM:~/Desktop/Lab3/roscourse_ws$ cd Desktop
yahboom@VM:~/Desktop$ cd Lab3
yahboom@VM:~/Desktop/Lab3$ cd roscourse_ws
yahboom@VM:~/Desktop/Lab3/roscourse_ws$ colcon build
Starting >>> turtle_interfaces
Starting >>> webcam
Finished <<< turtle_interfaces [0.89s]
Starting >>> python_turtle
Finished <<< webcam [1.38s]
Finished <<< python_turtle [0.88s]

Summary: 3 packages finished [1.93s]
yahboom@VM:~/Desktop/Lab3/roscourse_ws$ source install/setup.bash
yahboom@VM:~/Desktop/Lab3/roscourse_ws$ ros2 run python_turtle service_client
[INFO] [1739674659.656366851] [service_client]: Turtlebot Client Started!
[INFO] [1739674659.657804551] [service_client]: Server call success: 1
yahboom@VM:~/Desktop/Lab3/roscourse_ws$
```

