

LAB SHEET-4

1. Implement a ROS service that takes a string input through a GUI and returns it in uppercase.
 - Define a custom service that accepts a string and returns it in uppercase.
 - Create a ROS service server in Python that handles the string conversion.
 - Design a GUI to allow the user to input a string.
 - Implement a service client that calls the ROS service and displays the uppercase result in the GUI.
2. Implement a ROS service that calculates the factorial of a given non-negative integer input through a GUI. The service should return the factorial result
 - Define a custom service that accepts a non-negative integer and returns its factorial.
 - Create a ROS service server in Python that handles the factorial computation.
 - Design a GUI to allow the user to input a number.
 - Implement a service client that calls the ROS service and displays the factorial result in the GUI.