Example assignments

1. Create a chat application between 2 separate computers. Communicate trough the internet with using a linux kernel module. The module should act like a server. It can accept messages, and also send them to a specific IP address. (The port can be defined as a constant)

   The user-space application should communicate with the server trough a char device. The user application should show messages in "real time", and also send messages, using the server.

   Implementation can also use the proc functions, for debugging, or other purposes.

2. Create an application that will driver a robot arm using ROS. The kernel module should send the robot arm to specific locations. And keep it there. (Both simple functins and path calculation are welcome)

   The user-space application should set new coordinates for the robot using char devices. Bonus point, if it can also send trough the rebot in a specific path that is defined by parameters in a file.

   ++Extra point if the application also thinks about the surfaces, that the robot can collide with to prevent the collisions, and also draw or do a niche thing.