Outputs:-

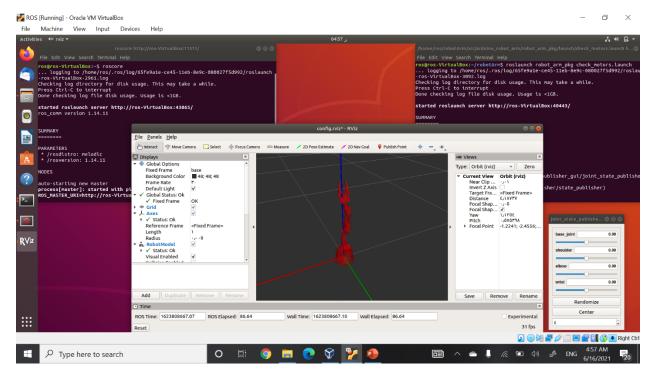


Figure 1 Rviz

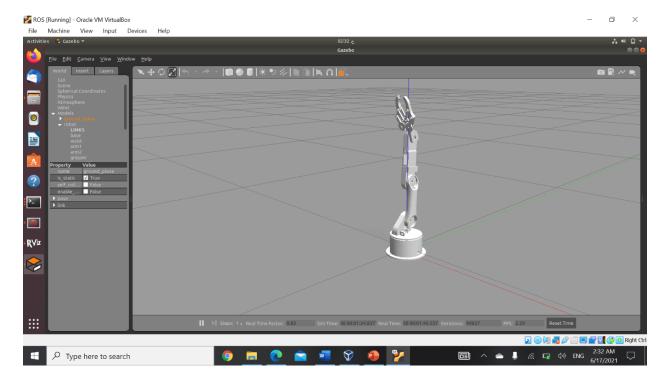


Figure 2 Gazebo

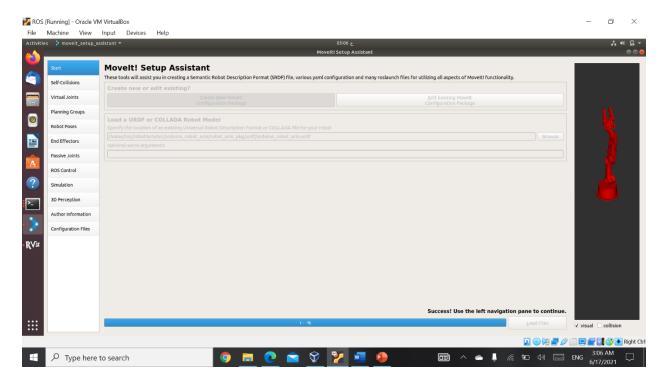


Figure 3 Movelt

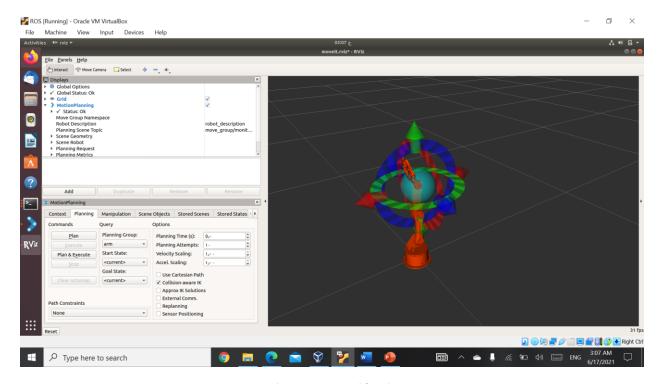


Figure 4 Movelt with RViz

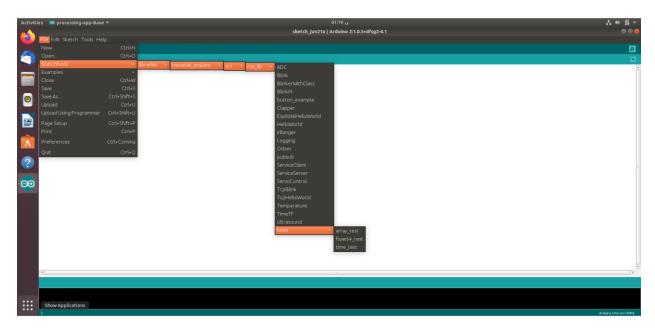


Figure 5 Arduino IDE with ros_lib