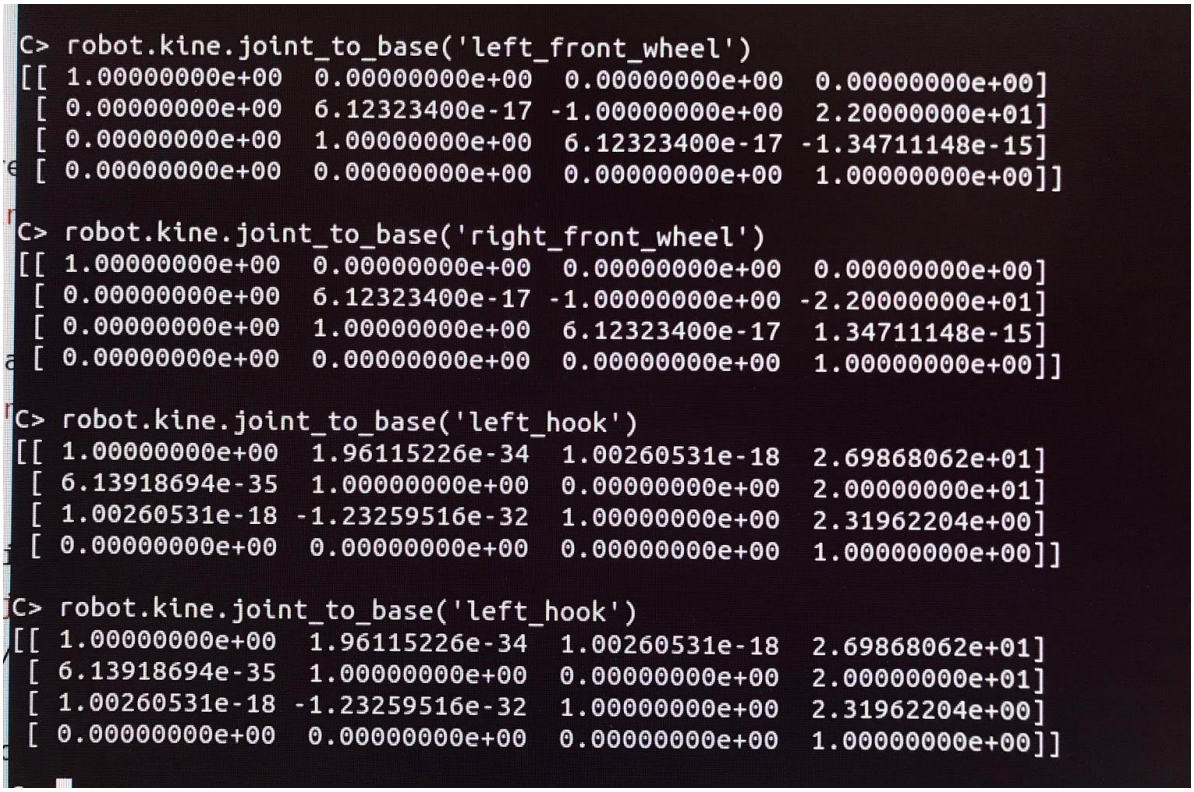
Homework 4

Extending the Kinematic Description



Kinematics Calculations

degree: diatance(mm)
-10: 102.7632
  0: 105.1486
 10: 104.1898
 20: 99.6971
 30: 92.0523
 40: 83.2770

- The result is really reasonable since camera is 5 mm forward than the front axle. Thus, when the head angle is 0, the focal plan should verticle to the floor, and be 105mm infront of the front axle.

Inverse Kinematics: Pointing the Camera

The following are results that target upper left angle of each cube.