## \*\*\* 'Best' Scenario:

- \*Initial Cube configuration: (x, y, theta) = (1, 0, 0)
- \*final cube configuration: (x,y,theta) = (0,-1,-pi/2)
- \*Initial youbot config:

Chassis Phi	Chassis x	Chassis y	J1	J2	J3	J4	J5	W1	W2	W3	W4	gripper state
0.7	-0.3	0	0	0	0	0	0	0	0	0	0	0

<sup>\*</sup>Controller type: Feedforward + PI

<sup>\*</sup>Gains Kp = 3, Ki = 1

<sup>\*</sup>Speed Limit was set to 2.5\*pi rad/sec for both wheels and joints.