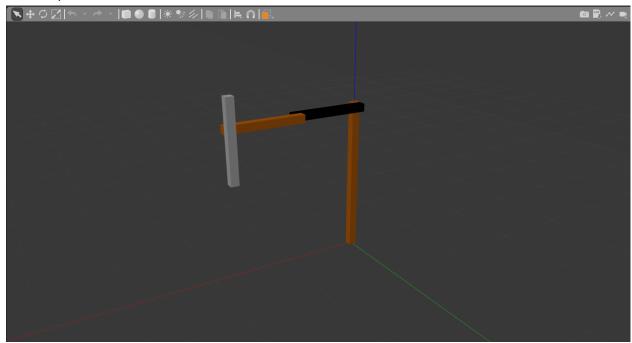
Group Assignment – Part 1

Shiva Surya Lolla Chaitanya Sriram Gaddipati Ethan Wilke

PART 1.) Create the robot:

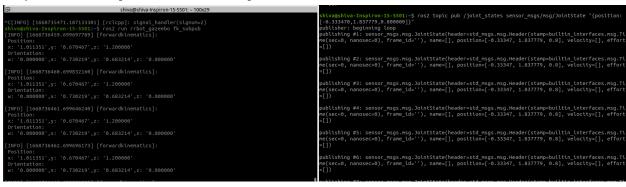


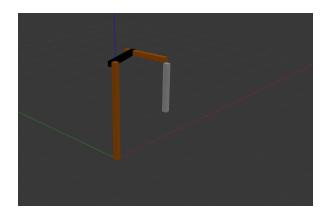
SCARA Robot spawned in the Gazebo environment.

Part 2.) Forward Kinematics:

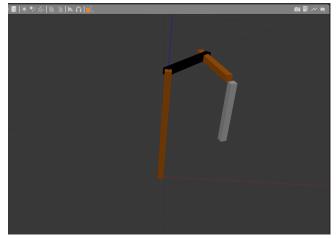
Input: Joint Values - [-0.333470,1.837779,0.800000]

Output: Position - [1.011, 0.67046, 1.2]



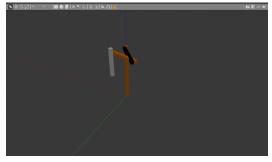


Input: Joint Values - [-0.814449, 2.059023, 1.7] Output: Position - [1.006736, 0.219912, 0.3]



Input: Joint Values - [-2.335208, 2.5535566, 0.2] Output: Position - [0.287883, -0.522769, 1.8]

```
| Introl | I
```



Part 3.) Inverse Kinematics:

Position Input: [1, 0.5, 1.2]

Joint value Output: [-0.33347, 1.837779, 0.8]

Resulting Joint values from the Input POS.

Position Input: [1, 0.2. 0.3]

Joint value Output: [-0.814449, 2.059023, 1.70]

Resulting Joint values from the Input POS.

Position Input: [0.4, -0.5, 1.8]

Joint value Output: [-2.335208, 2.53566, 0.2]

```
# Navagativas_Inspiron_15-55031-5 from_car from_parence is_support

| Internal Company |
```

Resulting Joint values from the Input POS.

