Introduction to Robotics
Manipulation and Programming

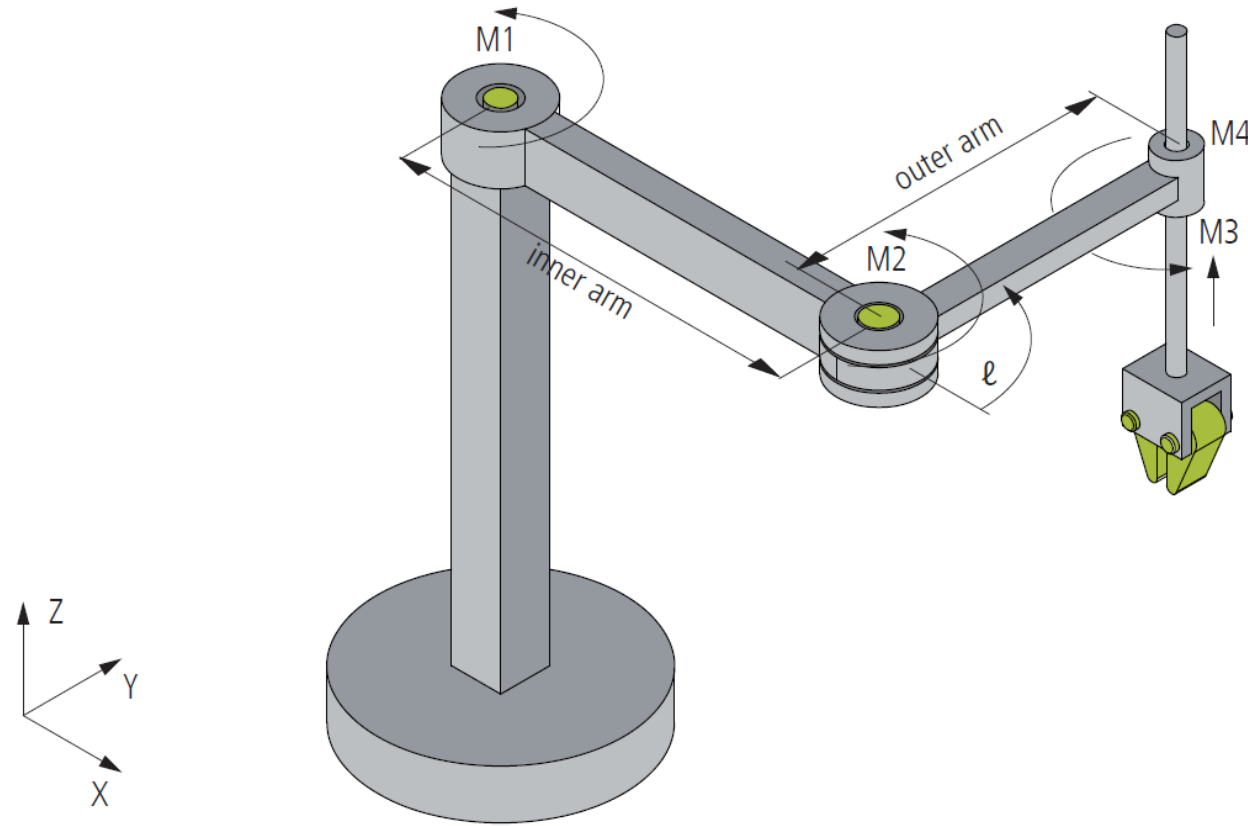## Unit 2: Kinematics

PYTHON LAB PROJECT: SCARA MANIPULATOR MODELING

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SCARA Robot Arm Modeling

Problem:

1) Model the SCARA Manipulator using Kinematics Diagram

2) Write a python program to demonstrate how a point c = [1, 0, 0] with respect to frame 4. will be rotated after the following rotations:

- Your Python code calculating the complete rotation matrix from frame 0 to frame 4 (DOF 4) for a SCARA manipulator. All link length assume to be 1. 3 Rotational Joint and 1 Prismatic joint.