FENIL DESAI

ROS PART OF ASSIGNMENT 4

$$\frac{1}{2} + \frac{1}{2} + \frac{1}$$

03 = atan2 (D, \1-D2) 02 = atm2(4,5) - qtm2(L2+136803, 1351n03) -> In my case, to make it consistant with the axis chosen for Forward kinematics, 03 = -03 (obtained by geometric calculations) 02 = -02 (obtained by geometric coleculations) are chalated in the chance shown below -> Jam Submitting "forward kinematics" as a part of - Its name is same as the last submission but it essentially does different jobs. It has a talks substricted both for Forward kinematics as well as Inverse kinematics. he calculations for forward kinematics of Inverse kinematics are done considering L1=L2=L3= 1.0 m. - For executing The file do The following -- Roscore - roscen forward\_knomatics forward\_knomatics - In new terminal publish the values of 91,920 93 using rostopic pulo FK topic forwark\_knomatics /joint variables "91: XX 92: XX 23: XX where XX is a joint variable in "dogrees". (2) Inverse sinomatics - In new terminal publish the spore of the relief using -Justopic put Ik topic geometry migs/fesse 6 Position:

X: XX

Y: XX

Z: XX

ocionlation: any value of these variables won't matter a as it is a 3-DOF robot of y: 000 Z:000 W: 0.0 currently we are interested in the passition of the and effector. where Ix is desired position of the end effector in