809T Assignment 9

Autonomous Robotics

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Chapter 1

Question 1:

All the explanations have been typed out since the environment have been noisy

1.1 Object Tracking:

Video link: https://youtu.be/dxhqAqTvfH8

1.1.1 Explanation:

So from processing the image the mask allows us o focus on the object and the center of the contours gives the center of the object to which side the robot rotates till we reach a certain threshold

1.2 Pick and place:

Video link: https://youtube.com/shorts/bMIQN4z7rl8

1.2.1 Explanation:

Here the Object after being tracked the distance between the object and the center line is used to travel towards the object and the once we reach the object and close the claw we then send an email and the run a set of predefined moves to release it.