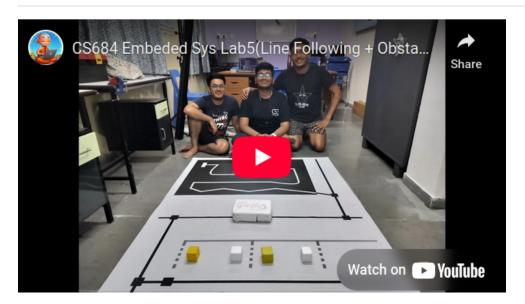
# CS684 :: Lab 5 : Heptagon implementation for Line Switching and Obstacle Navigation

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## YouTube [Link]



#### **Timestamps**

- 00:00 Code explenation
- 05:10 Calibration
- 05:22 Idle
- 05:25 Start
- 05:26 White Line Following
- 05:50 Line Switch
- 05:51 Black Line Following
- 05:56 Obstacle Navigation
- 06:09 Black Line Following
- 06:14 Parking
- 06:19 Finish

## **Performance**

• Calibration: 10s

• Total time taken: 53s

o **WLF:** 24s

Line Switch: 1s BLF (part1): 5s

o Obstacle Navigation: 13s (includes wate time)

BLF (part2): 5sParking: 5s

# **Charge Requirement**

• All these motions are tuned for a full battery charge. At lower charge levels, reduced motor power affects speed and accuracy, impacting turns and navigation.