

# TOLL GATE MANAGEMENT AND SMART LIGHT SYSTEM

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ICPS PROJECT

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# INTRODUCTION



## INTRODUCTION

- Lane Suggestion
- Vehicle Count Information
- Notification to check balance in the wallet
- Smart Street Light System

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## PROBLEM LOOKING FOR



## TRAFFIC INTENSITY AT TOLL



Source

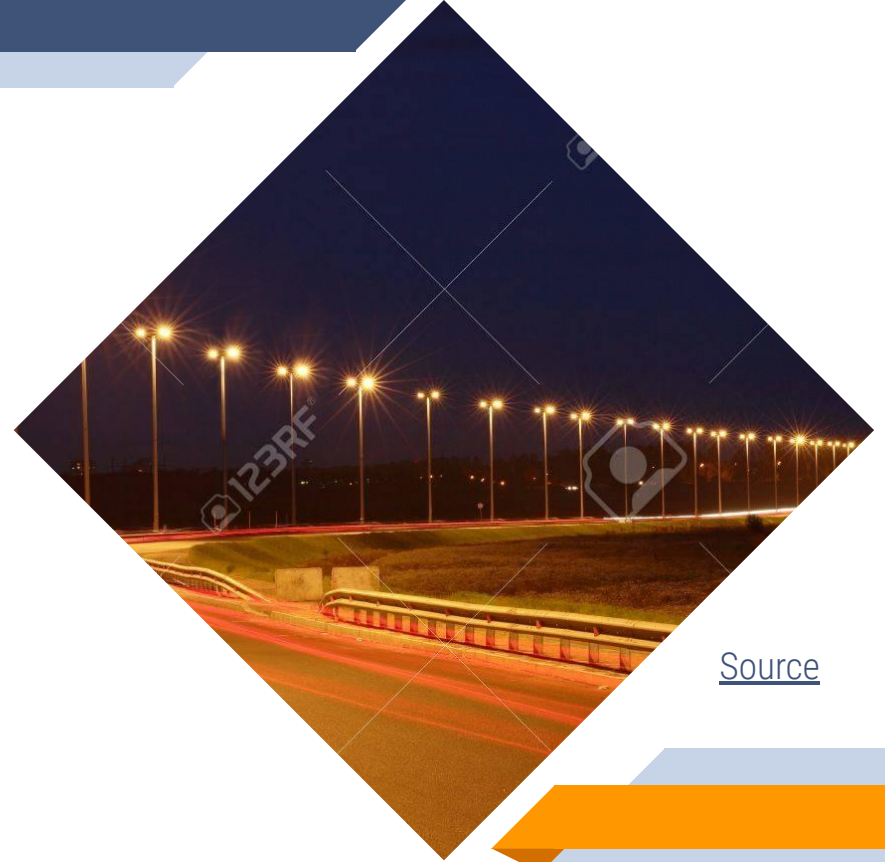


Source



## WASTAGE OF ELECTRICITY

“Save the Electricity, we need  
it tomorrow ”



[Source](#)

3

DONE TILL  
**MID EVALUATION**



## DONE TILL MID EVALUATION

### Software

1. Code for LCD display
1. Code for IR sensor
1. Data Preparation

### Hardware

1. Collected all required components
1. Checked the components with basic code
1. Vehicle Count



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DONE AFTER  
MID EVALUATION



## DONE AFTER MID EVALUATION

- Model Planning of the Project (Tinkercad)
- Street light system
- Lane Suggestion
- Vehicle count
- Information to Thingspeak

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IN  
FINAL EVALUATION

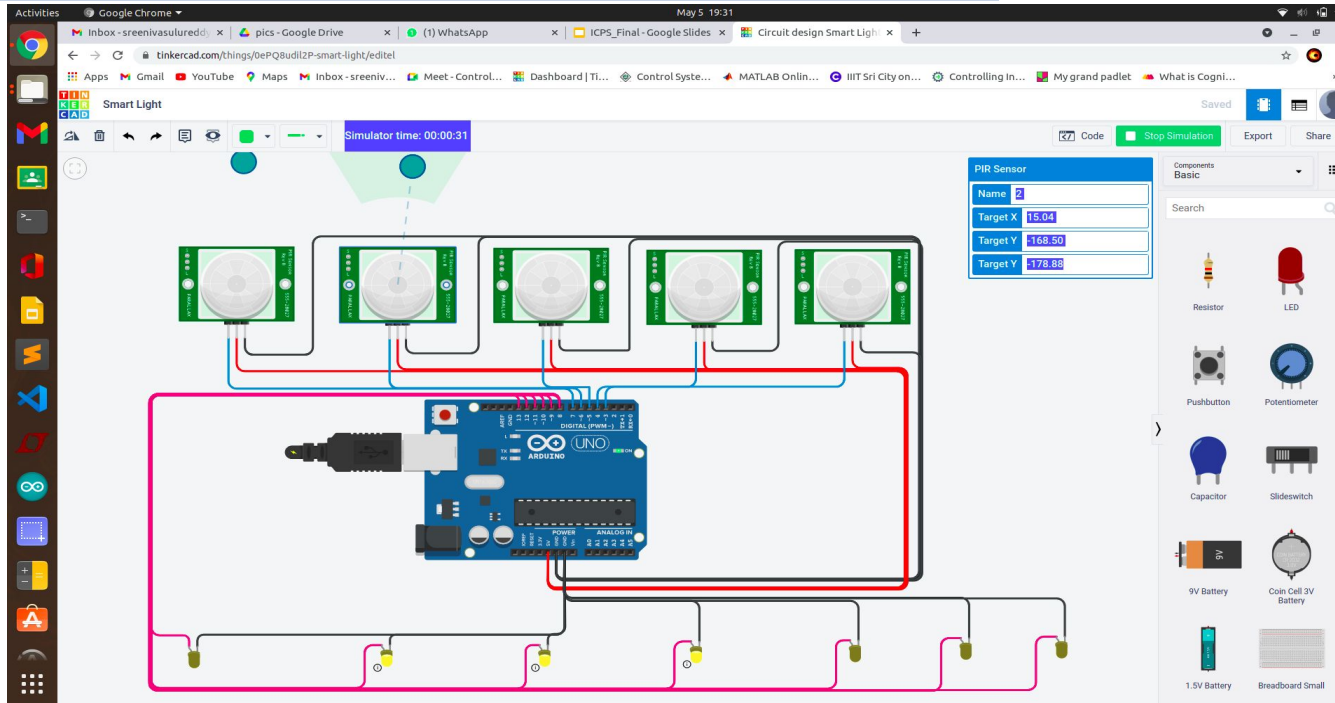


## IN FINAL EVALUATION

- Smart street light system
- Notification to check wallet balance
- Lane Suggestion in LCD Display
- Information of vehicle count and money collected by plaza to Thingspeak
- Toll gate lock



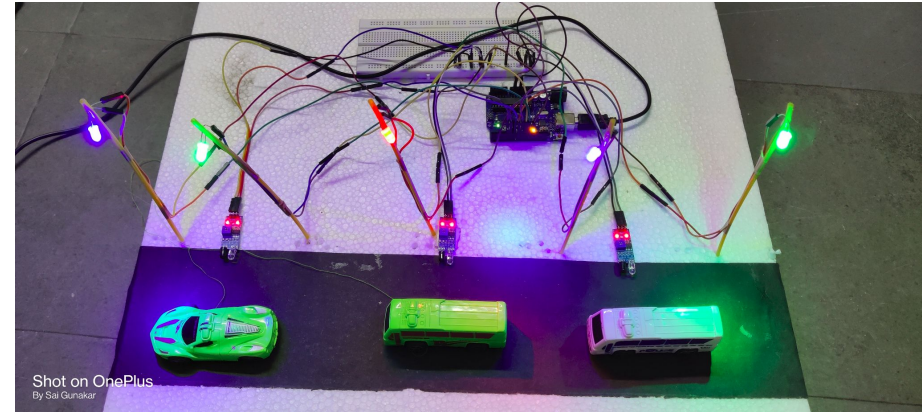
# MODEL PLANNING OF STREET LIGHT





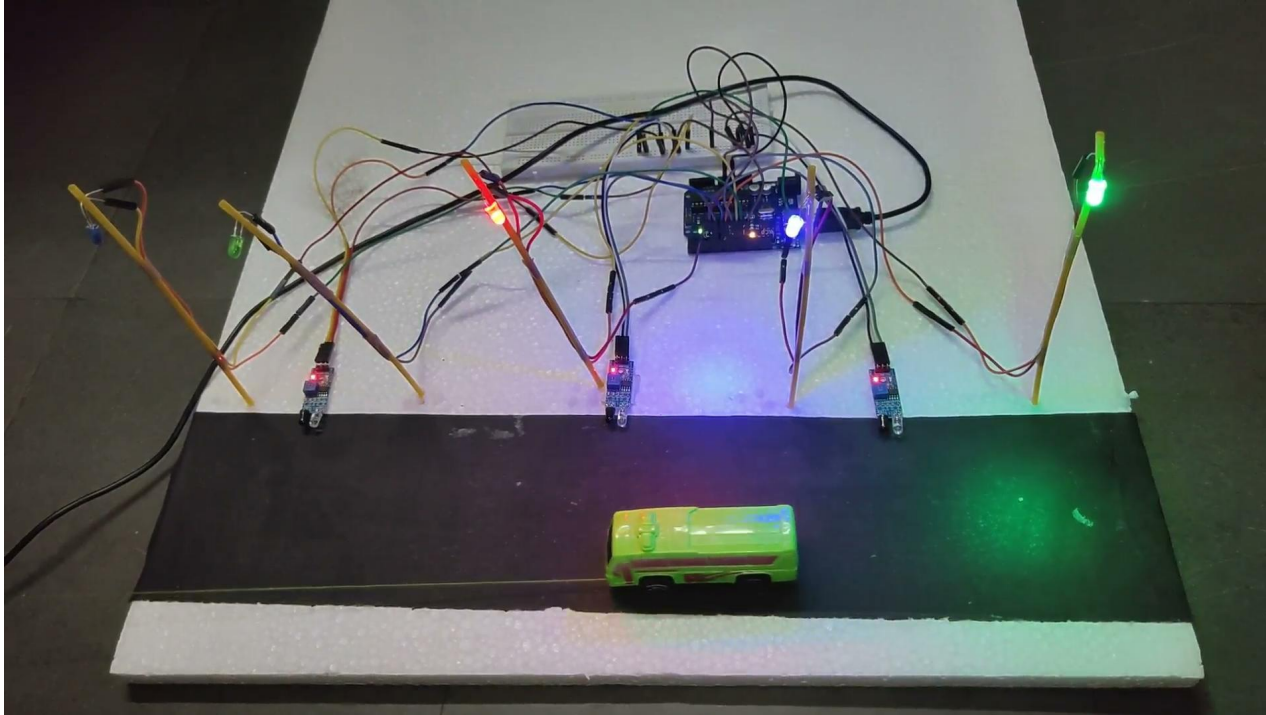
## SMART STREET LIGHT SYSTEM

“Smart street light, street light will turn on while vehicle is passing through it ”



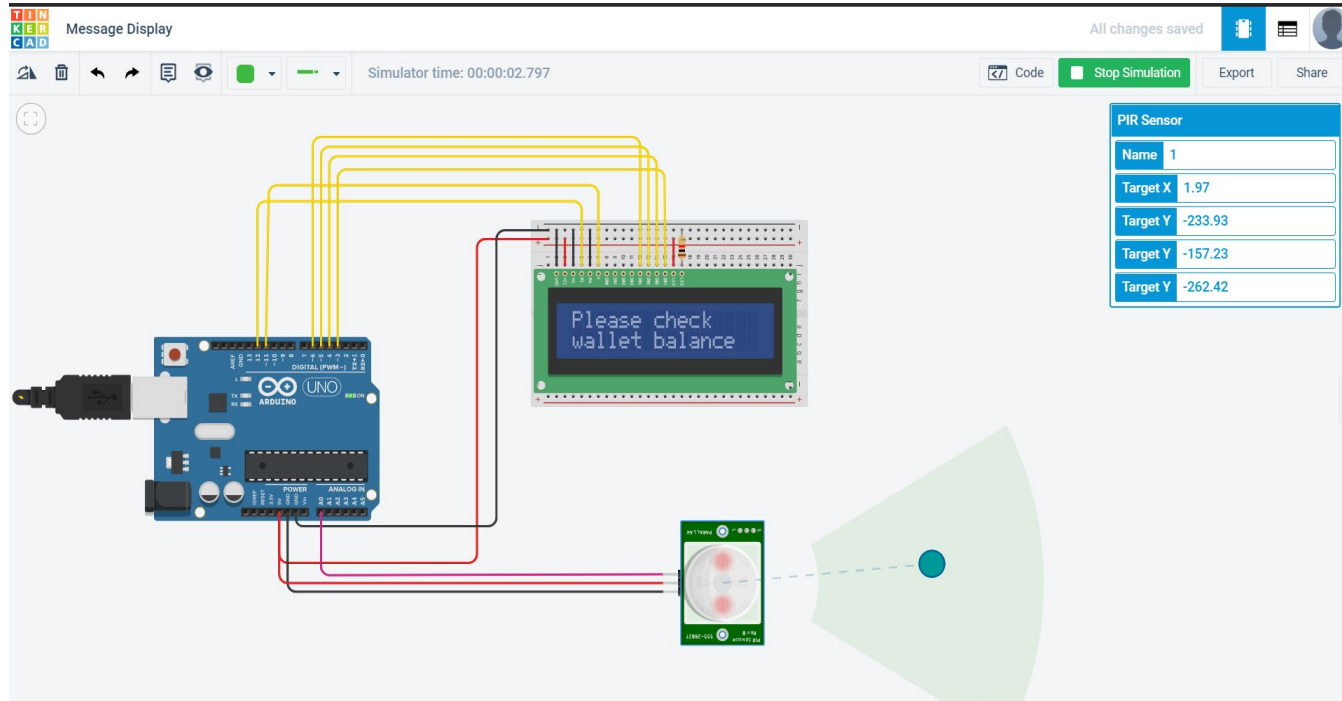


## SMART STREET LIGHT SYSTEM





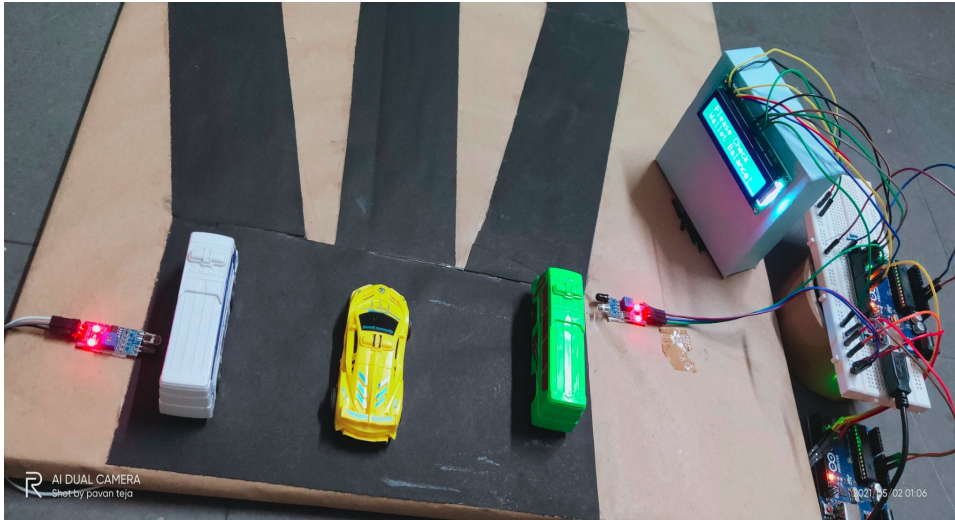
# MODEL PLANNING OF WALLET BALANCE NOTIFICATION





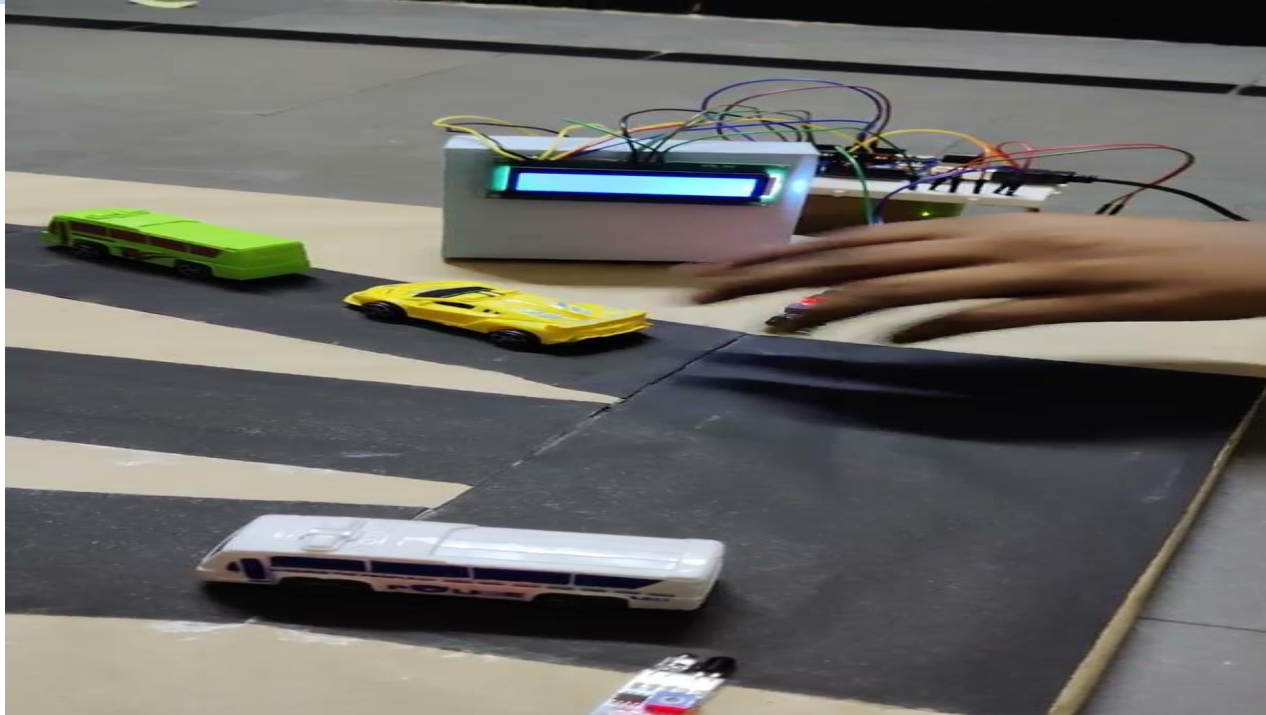


# WALLET BALANCE NOTIFICATION



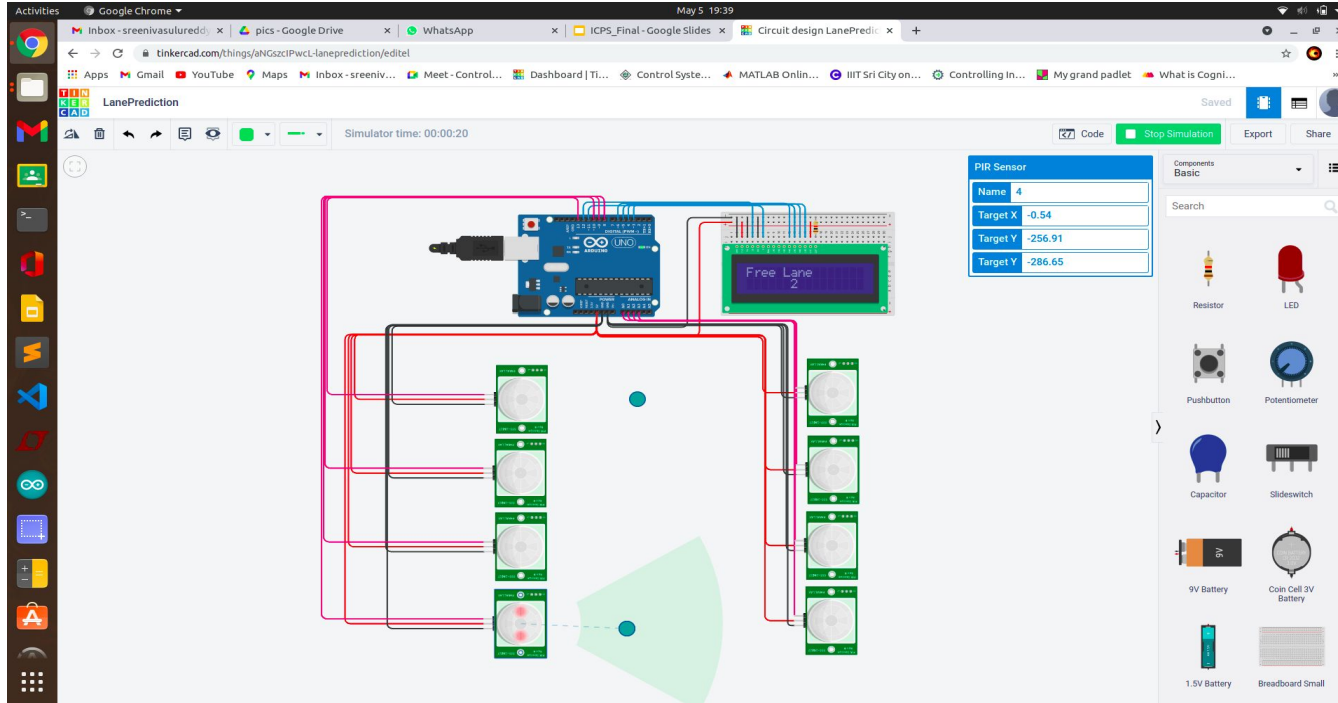


## WALLET BALANCE NOTIFICATION



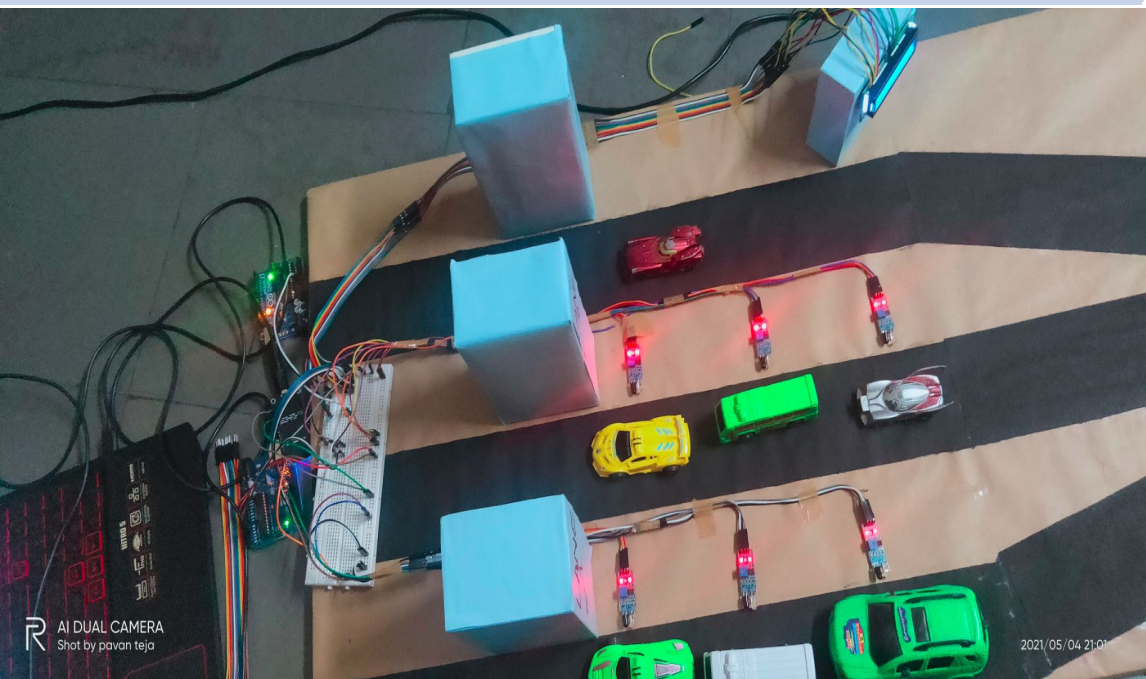


# MODEL PLANNING OF LANE SUGGESTION



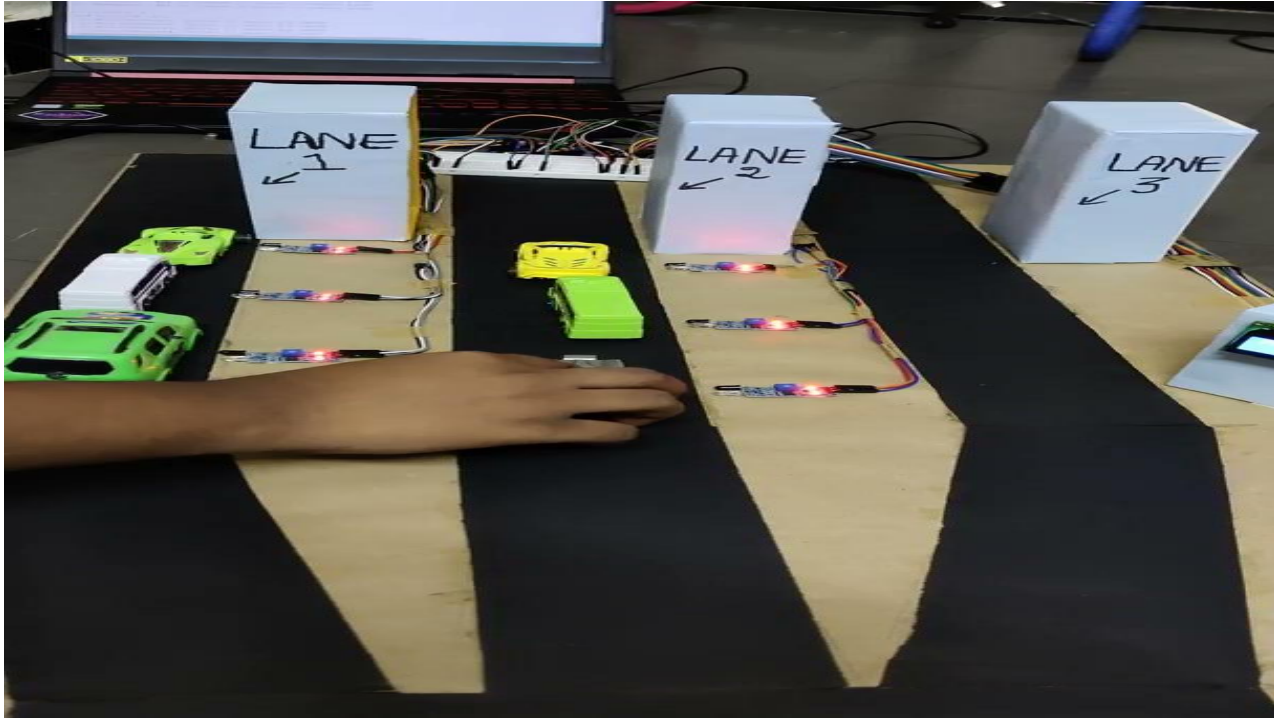


## LANE SUGGESTION





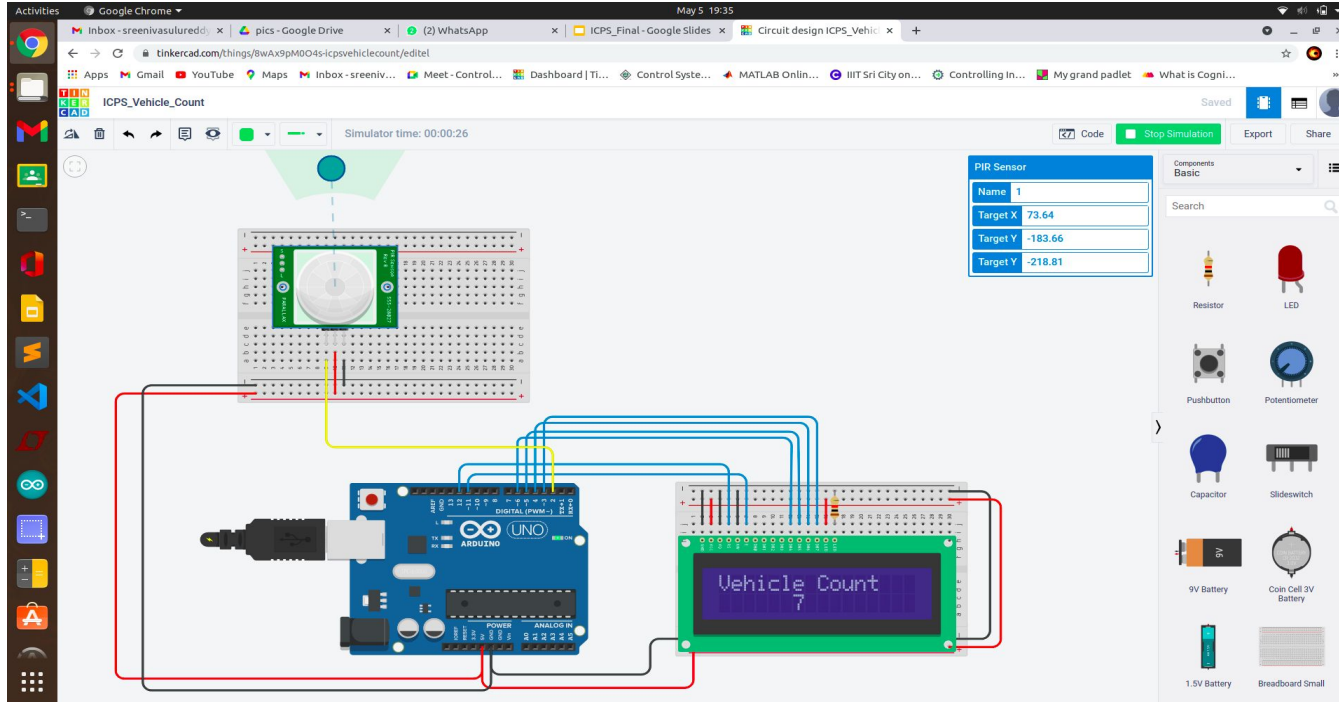
## LANE SUGGESTION





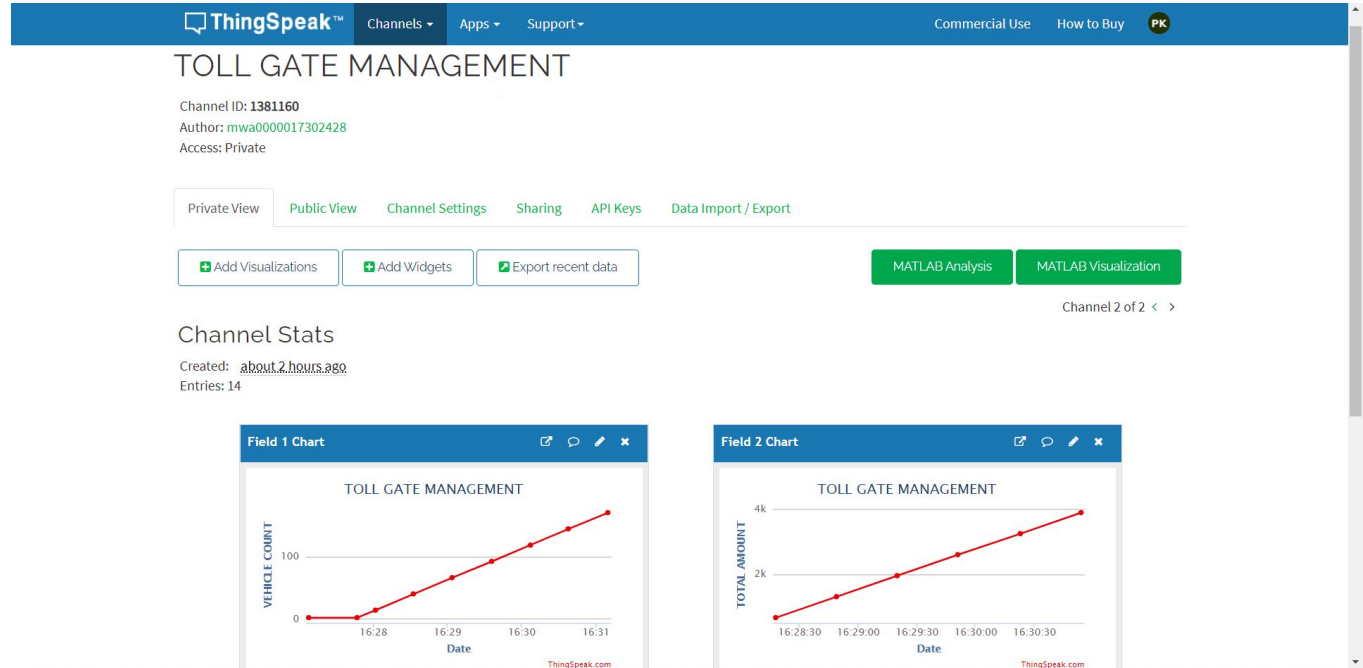
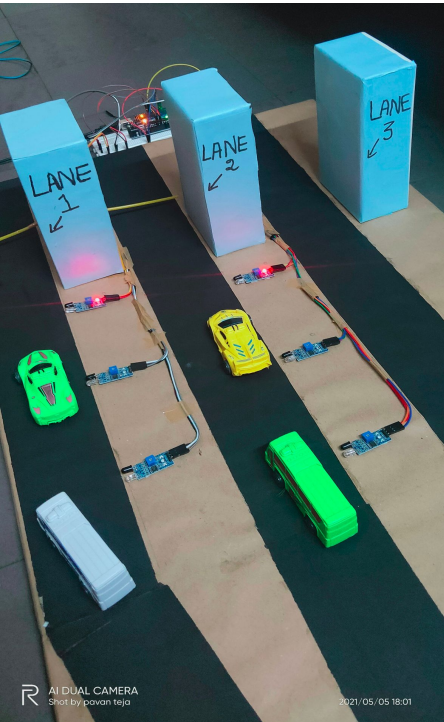


# MODEL PLANNING OF VEHICLE COUNT



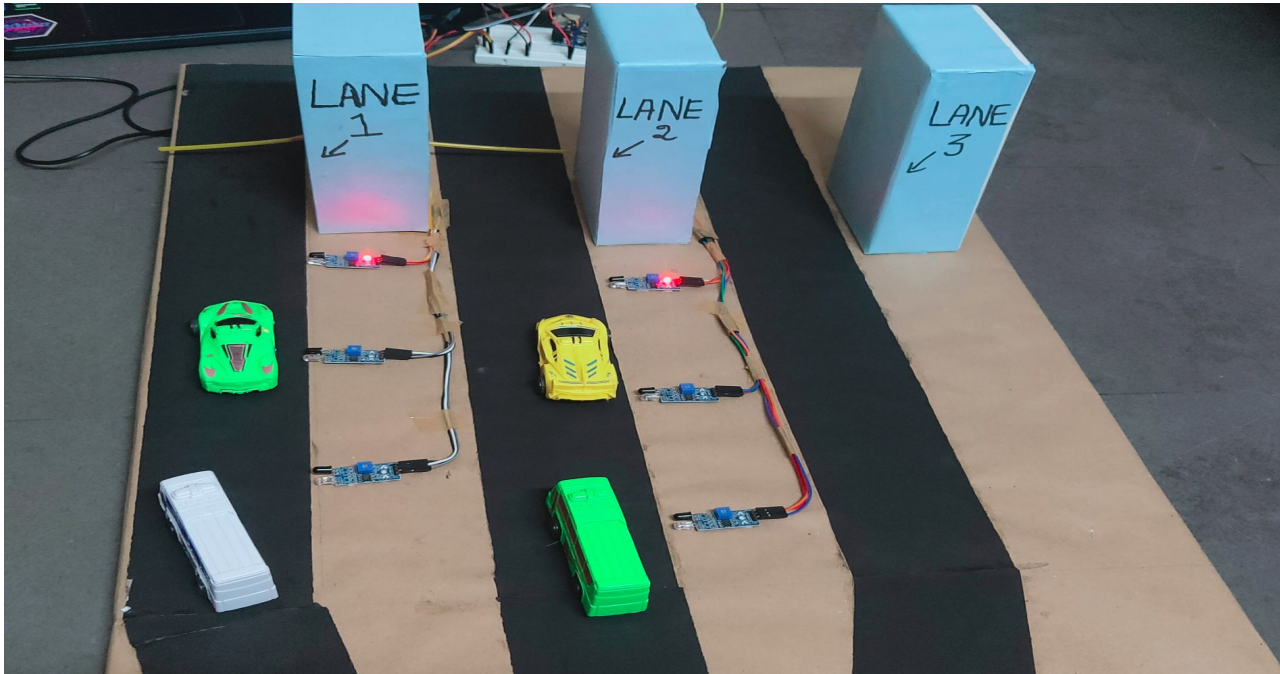


# VEHICLE COUNT





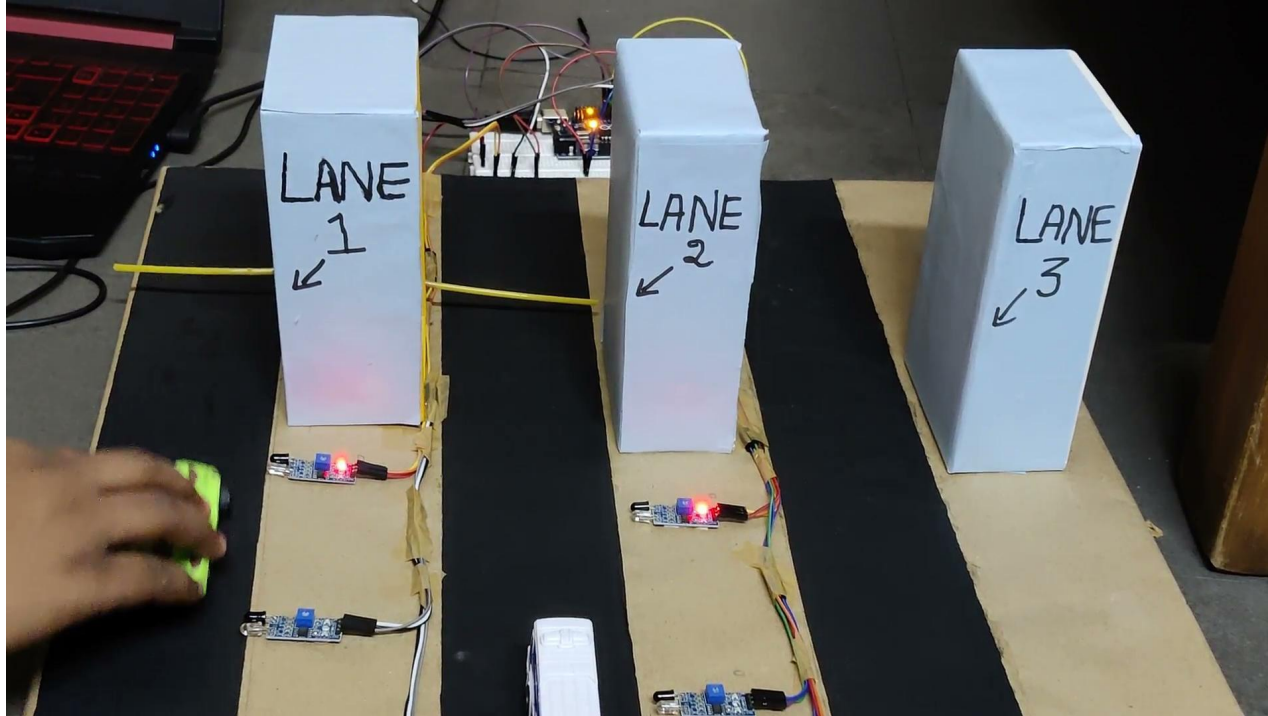
## TOLL GATE LOCK







## TOLL GATE LOCK





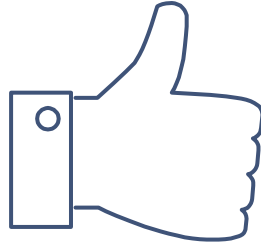
## SIMULATION LINKS

[Street Light System](#)

[Lane Suggestion](#)

[Wallet Balance Notification](#)

[Vehicle Count](#)



# THANK YOU

Any questions?