Adrija Roy 22EE02006

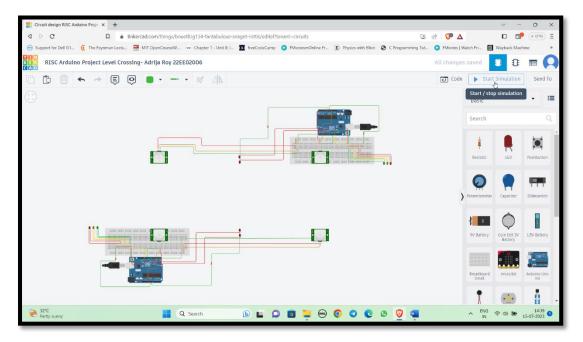
INSTRUCTIONS MANUAL

RISC Arduino Project Level Crossing

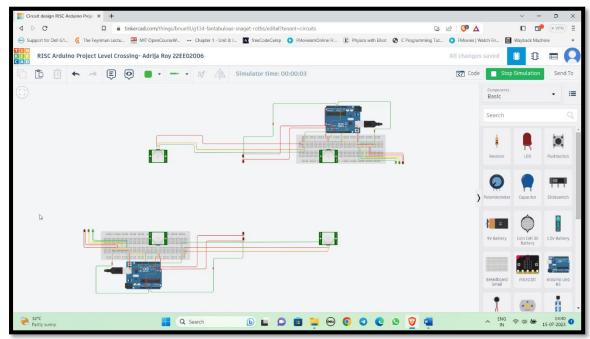
How to Operate:

(Observe *cursor* position in images for demonstration)

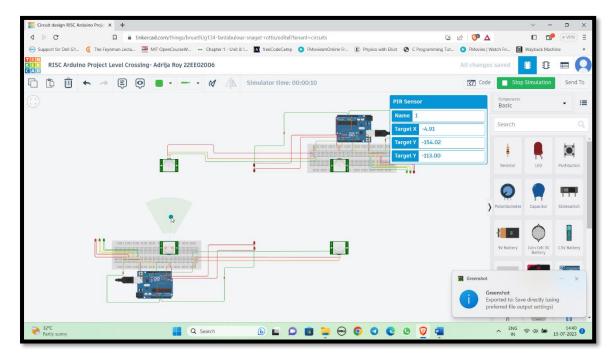
 Click on Start Simulation. The USB is connected to the Arduino Board and Home Signals turn GREEN.



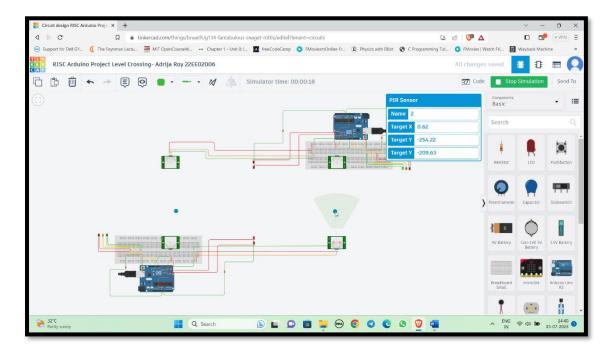
 Assume a train approaching the level crossing along the UP LINE (Arduino Board 1).



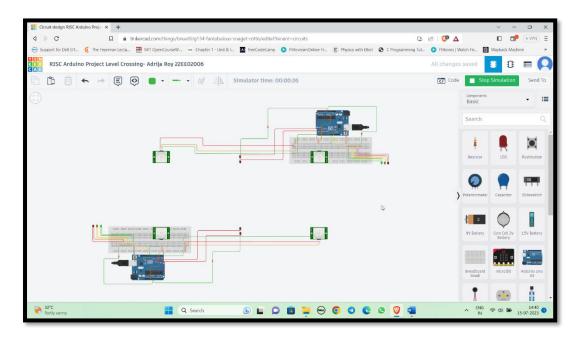
- Click on PIR SENSOR 1 to activate it (necessary to run TinkerCAD Simulation).
- Select and move the Circular Object (Train) to observe sensor activity. Home Signal 1 will turn RED and Level Crossing Signal 1 will start blinking RED. This implies that train is ENTERING the level crossing zone.



- Click on PIR SENSOR 2 to activate it.
- Select and move the Circular Object (Train) to observe sensor activity. Home Signal 1 will turn YELLOW and Level Crossing Signal 1 will continue blinking RED. This implies that train is EXITING the zone.



• On deselecting the PIR SENSOR 2, Home Signal 1 turns GREEN again and Level Crossing Signal 1 stops blinking. This implies the track is clear now.



- Similarly, operate the level crossing along **DOWN LINE** (Arduino Board 2), using **PIR SENSOR 4** and **3**, respectively.
- Click on Stop Simulation.

