Hackathon

Setup Instructions

Repository Setup

1. Clone the repository : `https://github.com/offatechcommunity/Hackathon`

2. Open the project folder

- Review the project structure:

```
Hackathon/├── traffic_light.ino ├── circuit_diagram.png ├── README.md
    └── components_list.txt
```

Hardware Configuration

3. Examine the circuit diagram

- Open `circuit_diagram.png` to see the wiring layout
- Check `components_list.txt` for required parts

Code Configuration & Upload

6. Run the Code

- `Pedestrian_Traffic.ino`

Expected Behavior

Normal Traffic Light Cycle:

1. **Green Light (5 seconds)** - Traffic flows normally

2. **Red Light (5 seconds)** - Traffic must stop

3. **Cycle repeats automatically**

With Movement is detected:

- Red Light goes on

- Buzzer sounds

With NO Movement detected:

- Green Light goes on