

#### **Smart Traffic Management System**



Gaurav Adavkar



Varadmurty Mohod



Gaurav Mishra



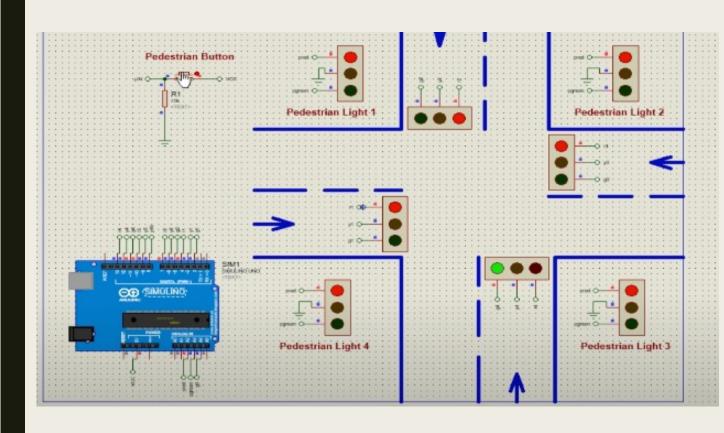
Under the guidance of:
Prof.Akhil Masurkar
Assistant Professor
Department of Electronics Engineering

## INTRODUCTION:

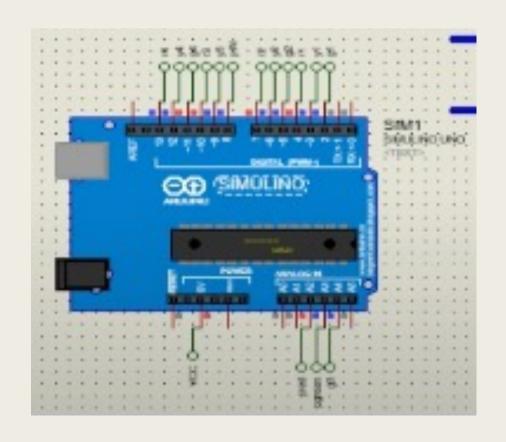
- Traffic Management efficiently done through prioritising density with a four way signal and an additional inclusion of pedestrian lights
- The entire project was simulated using Proteus Design Suite.
- The aim of the project is to simulate the running of a 4 way traffic light system, which ensures ease of traffic flow with an inclusion of pedestrian lights.

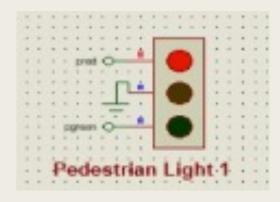
# Components used in simulation:

COMPONENT PORT MARKER INDICATOR TAPE GENERATOR TERMINAL SUBCIRCUIT 2D GRAPHIC WIRE DOT WIRE **BUS WIRE** BORDER TEMPLATE

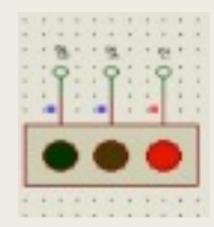


## Pin alignment for components:









### **Arduino Code:**

```
traffic_with_pedestrian_arduino_code | Arduino 1.8.13
  traffic_with_pedestrian_arduino_code §
const int pRed = A2;
const int pgreen = A3;
const int pIN = 8;
void setup()
pinMode (r1, OUTPUT);
pinMode (y1, OUTPUT);
pinMode (g1, OUTPUT);
pinMode (r2, OUTPUT);
pinMode (y2, OUTPUT);
pinMode (g2, OUTPUT);
pinMode (r3, OUTPUT);
pinMode (y3, OUTPUT);
pinMode (g3, OUTPUT);
pinMode (r4, OUTPUT);
pinMode (y4, OUTPUT);
pinMode (g4, OUTPUT);
pinMode (pRed, OUTPUT);
pinMode (pgreen, OUTPUT);
pinMode (pIN, INPUT);
digital Write (r1 HTGH).
```

## Video Demonstration:

