

- **System Description:**

Traffic light that have two mode one for car and one for person if the person want to pass the street quickly and led of car is green, This system will solve this problem and allow the person to pass the street.

- **System Design:**

- **System Requirements:**

- 1) Atmega32.
- 2) 6 led (2 red – 2 green – 2 yellow).
- 3) Push button
- 4) 6 Resistors and the value of each of them is 300ohm
- 5) Power

- **Software Design:**

- In normal mode:**

The car's led will be start with led red and changed after 5 second to led yellow and changed after 5 second to led green and changed after 5 second to led red...

- In pedestrian mode:**

- Change from normal mode to pedestrian mode if button is pressed.
- If the button is pressed and the car's led is green or yellow the **led yellow of car** will be on for 5 second and pedestrian green led will be on for 5 second and red led of car will be on for 5 second .
- Then the green led of **pedestrian will be of and red led of car mode** will be of .
- The Traffic lights will return to normal mode.

- **Flowchart:**



