```cpp
int led_green=0;
int led_yellow=1;
int led_red=2;
int led_pedestrian_green=3;
int led_pedestrian_red=4;
int button_pedestrian=5;
int lag=2000;
int status=0;

void setup()
{
  pinMode(led_green, OUTPUT);
  pinMode(led_yellow, OUTPUT);
  pinMode(led_red, OUTPUT);
  pinMode(led_pedestrian_green, OUTPUT);
  pinMode(led_pedestrian_red, OUTPUT);
  pinMode(button_pedestrian, INPUT);
}

void loop()
{
  digitalWrite(led_green, 1);
  digitalWrite(led_pedestrian_red, 1);
  status = digitalRead(button_pedestrian);
  if(status == HIGH){
    delay(lag);
    digitalWrite(led_green,0);
    for (int i = 0; i<=3; i++)
     {
      digitalWrite(led_yellow, 1);
      delay(lag/2);
      digitalWrite(led_yellow, 0);
      delay(lag/4);
     }
    digitalWrite(led_red,1);
    delay(lag/2);
    digitalWrite(led_pedestrian_red, 0);
    digitalWrite(led_pedestrian_green, 1);
    delay(lag*2);
    for (int i = 0; i<=3; i++)
     {
      digitalWrite(led_pedestrian_green, 0);
      delay(lag/4);
      digitalWrite(led_pedestrian_green, 1);
      delay(lag/2);
          }
    digitalWrite(led_pedestrian_green, 0);
    digitalWrite(led_pedestrian_red, 1);
```

```
    delay(lag);
    digitalWrite(led_red,0);
   }
  else{
  }
}
```