# Handout #6 - Pedestrian Crossing with Counter and Anti Spam

#importing the Library from gpiozero import LED,Button,Buzzer from time import sleep from signal import pause

### #introducing TM1637 to program

```
import tm1637
display = tm1637.TM1637(20, 16) #20=CLK 16=DIO
#give name to components - variable
red_led = LED(14)
```

green\_led=LED(18) buzzer=Buzzer(25) pc\_button = Button(24)

## #add anti spam LED here

anti\_spam\_led=LED(7)

# #initialise state of components to off

```
red_led.off()
green_led.off()
buzzer.off()
#must initialise the anti spam LED as well
anti_spam_led.off()
```

### #new function to handle spamming

```
def checkstatus():
    if anti_spam_led.on():
       pass
    else:
       anti_spam_led.on()
       greenman()
```

# Handout #6 (cont'd)

#create a function for greenman

```
def greenman():
  sleep(10)
  red_led.off()
  green_led.on()
  sleep(10)
  for count in range(9,-1,-1):
    green_led.blink(on_time=.5, off_time=.5, n=1)
    buzzer.blink(on_time=.5,off_time=.5,n=1)
    S1=' '
    S2=' '
    S3=' '
    S4=str(count)
    display.set_values([S1, S2, S3, S4])
    sleep(1)
  green_led.off()
  display.clear()
  red_led.on()
  #reset anti_spam_led
  anti_spam_led.off()
```

```
green_led.off()
display.clear()
red_led.on()
#reset anti_spam_led
anti_spam_led.off()

#logic of program
red_led.on()

# some modification is needed here
#instead of running greenman, we run the check_status first
#pc_button.when_pressed = greenman
pc_button.when_pressed = checkstatus
```