**Handout #5 – Pedestrian Crossing with Counter**

#importing the Library

from gpiozero import LED,Button,Buzzer

from time import sleep

from signal import pause

#introducint 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)

#initialise state of components to off

red\_led.off()

green\_led.off()

buzzer.off()

#create a function for greenman

def greenman():

sleep(10)

red\_led.off()

green\_led.on()

sleep(10)

#introducing the counter here

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()

#logic of program

red\_led.on()

pc\_button.when\_pressed = greenman

pause()