**HANDOUT #3 – BURGLAR ALARM WITH ARM AND RESET BUTTONS**

#Library

from gpiozero import MotionSensor, LED, Buzzer, Button

from signal import pause

from time import sleep

#Variables for Components

password=’12345’

motion\_detector = MotionSensor(4)

red\_led = LED(12)

armed\_led=LED(20)

armed\_led.off()

arm\_button=Button(2)

reset\_button=Button(21)

buzz = Buzzer(16)

buzz.off()

#Functions

def alarm():

red\_led.blink(on\_time=.5,off\_time=.5,n=20)

buzz.blink(on\_time=.5,off\_time=.5,n=20)

sleep(20)

def armAlarm():

armed\_led.on()

motion\_detector.when\_motion = alarm

def disarmAlarm():

pwd=input(‘Enter Password’)

if pwd != password:

pass

else:

armed\_led.off()

buzz.off()

red\_led.off()

motion\_detector.when\_motion = None

#Logic / Algorithm

arm\_button.when\_pressed = armAlarm

reset\_button.when\_pressed = disarmAlarm

while True:

pause()