ASSIGNMENT 3

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**Write Python Code for Blinking LED and Trafﬁc Lights for Raspberry pi**

# LED Blinking Python Code

import RPi.GPIO as GPIO import time

ledPin = 22 def setup():

GPIO.setmode(GPIO.BOARD)

GPIO.setup(ledPin, GPIO.OUT) GPIO.output(ledPin, GPIO.LOW)

def loop():

while True:

print 'LED on'

GPIO.output(ledPin, GPIO.HIGH)

time.sleep(1.0) print 'LED off'

GPIO.output(ledPin, GPIO.LOW) time.sleep(1.0)

def endprogram():

GPIO.output(ledPin, GPIO.LOW) GPIO.cleanup()

if name == ' main ': setup()

try:

loop()

except KeyboardInterrupt: endprogram()

# Trafﬁc Light Python Code

from giozero import LED from time import sleep red=LED(17)

yellow=LED(22) green=LED(27) While True:

red.on() sleep(15)

red.off() sleep(1) yellow.on() sleep(10) yellow.off() sleep(1) green.on() sleep(10) green.off() sleep(1)