

Assignment-3

python code2.txt

BLINKING LED AND TRAFFIC LIGHTS USING PYTHON CODE import RPi.GPIO as GPIO

import time

try:

def lightTraffic (led1, led2, led3, delay): GPIO.output (led1, 1)

time.sleep(delay)

GPIO.output (led1, 0) GPIO.output (led2, 1)

time.sleep(delay) GPIO.output (led2, 0)

GPIO.output (led3, 1)

time.sleep(delay) GPIO.output (led3, 0)

GPIO.setmode (GPIO.BCM) button = 19

GPIO.setup(button, GPIO.IN, pull_up_down=GPIO. PUD_UP

ledGreen 16 ledYellow

= 12

ledRed = 23

GPIO.setup(ledGreen, GPIO.OUT)

GPIO.setup(ledYellow, GPIO.OUT) GPIO.setup(ledRed, GPIO.OUT)

while True: input_state= GPIO. input (button)

if input_state== False:

print('Button Pressed')

lightTraffic (ledGreen, ledYellow, ledRed, 1)

else:

GPIO.output (ledGreen, 0)

GPIO.output (ledYellow, 0)

GPIO.output (ledRed, 0) except KeyboardInterrupt: print "You've exited the program"

finally: GPIO.cleanup()0