

Assignment Date	06 October 2022
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### **1. Raspberry Pi Program to Blink A LED.**

```

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
from time import sleep # Import the sleep function from the time module
GPIO.setwarnings(False) # Ignore warning for now
GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)
while True: # Run forever
    GPIO.output(8, GPIO.HIGH) # Turn on
    sleep(1) # Sleep for 1 second
    GPIO.output(8, GPIO.LOW) # Turn off
    sleep(1) # Sleep for 1 second

```

### **2. Raspberry Pi Program for Traffic Light.**

```

from gpiozero import Buzzer from gpiozero import Button
from gpiozero import LED
from time import sleep
button = Button (21) buzzer = Buzzer (15)
redled = LED(25)
yellowled = LED(8) greenled = LED(7)
while True:
    if button.is_pressed:
        redled.on()
        buzzer.on()
        sleep(2)
        redled.off()
        buzzer.off()
        yellowled.on()
        sleep(2)
        yellowled.off()
        greenled.on()
        sleep(2)
        greenled.off()
        break

```