

## 1. Python program for blinking LED for Raspberry Pi.

### Source Code:

```
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. Traffic Light for Raspberry Pi :-

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
```

```
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
```

```
while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```