

PANIMALAR ENGINEERING COLLEGE

Department of Electronics and Communication

EngineeringIOT Assignment

Topic: PYTHON CODE FOR BLINKING LED
AND TRAFFIC LIGHT

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PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT:

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

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

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

```
while True:
    lights.on()
    buzzer.off()
    button.wait_for_press()
    lights.off()
    buzzer.on()
    button.wait_for_release()
```

```
while True:
    lights.blink()
    buzzer.beep()
    button.wait_for_press()
    lights.off()
    buzzer.off()
    button.wait_for_release()
```

```
1 from gpiozero import Button,LED,TrafficLights,Buzzer
2 from time import sleep
3
4 button = Button(21)
5 lights = TrafficLights(25, 8, 7)
6 buzzer = Buzzer(15)
7 while True:
8     button.wait_for_press()
9     lights.green.on()
10    sleep(1)
11    lights.amber.on()
12    sleep(1)
13    lights.red.on()
14    sleep(1)
15    lights.off()
16 while True:
17     lights.on()
18     buzzer.off()
19     button.wait_for_press()
20     lights.off()
21     buzzer.on()
22     button.wait_for_release()
23 while True:
24     lights.blink()
25     buzzer.beep()
26     button.wait_for_press()
27     lights.off()
28     buzzer.off()
29     button.wait_for_release()
```