

PANIMALAR ENGINEERING COLLEGE

Department of Electronics and Communication Engineering

IOT Assignment

Topic: PYTHON CODE FOR BLINKING LED
AND TRAFFIC LIGHT

Team ID: PNT2022TMID01176

Name: Santhana Prabhu J

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()
```