

## ASSIGNMENT -3

TEAM ID	PNT2022TMID44430
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PROJECT NAME	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE .
ASSIGNMENT -3	WRITE PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI . ONLY PYTHON CODE IS ENOUGH ,NO NEED TO EXECUTE IN RASPBERRY PI .

### CODE:-

#### Traffic Light control:-

```
from
gpiozero
import
Button,
TrafficLights,
Buzzzer  from time import sleep
    buzzer = Buzzzer(15)
    button = Button(21)
    lights = TrafficLights(25, 8,7)
    while True:
        button.wait_for_press()

        buzzer.on()
        lights.green.on()
        sleep(1)
        lights.amber.on()
```

```
sleep(1)
lights.red.on()
sleep(1)
lights.off()
buzzer.off()
```

**Blinking 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
```