ASSIGNMENT -3

TEAM ID	PNT2022TMID44430
REGISTER NO	731219106001
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 RASPBEERY PI .

CODE:-

Traffic Light control:-

```
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()
            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
```