ASSIGNMENT -3

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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,
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
```