ASSIGNMENT -3

IOT BASED SMART CROP PROTECTON SYSTEM

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Write python code for blinking LED and Traffic lights for Raspberry pi.

1.python code for blinking LED for Raspberry pi

```
import RPi.GPIO as GPIO
import time
#assign numbering for the GPIO using BCM
GPIO.setmode(GPIO.BCM)
#assingn number for the GPIO using Board
#GPIO.setmode(GPIO.BOARD)
cnt = 0
MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds
RED_LED = 4
GPIO.setup(RED_LED, GPIO.OUT)
while True:
if cnt == 0:
GPIO.output(RED_LED, False)
cnt = 1
else:
GPIO.output(RED_LED, True)
cnt = 0
time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

2. Python code for Traffic lights for Raspberry pi.

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()
light.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1)
lights.off()
buzzer.off()
```