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.GPlO as GPIO import time

#assign numbering for the GPIO using BCM

GPIO.setmode(GPlO.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:

ifcnt 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

```python
buzzer = Buzzer(1 5) button =
Button(21)         lights        =
TrafficLights(25, 8, 7)

while True:
        button.wait_for_press(
        ) buzzer.on()
        light.green.on() sleep(l)
        lights.amber.on()
        sleep(l) lights.red.on()
        sleep(l) lights.off()
        buzzer.off()
```