## **ASSIGNMENT-3**

## IOT BASED SMART CROP PROTECTON SYSTEM

Student Name: S.Suganya

Student Roll Number: 960219106136

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:
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

```
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()
```