

ASSIGNMENT - 3

Project Name : SmartFarmer - IoT Enabled Smart Farming Application
Batch Number : B4-4M6E
Assignment Topic : Blinking LED and Traffic light using python
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CODE :

#BLINKING LED

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)

cnt = 0
MAIL_CHECK_FREQ = 1
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()
```

#TRAFFIC LIGHT

```
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()
```