

ASSIGNMENT 3

TOPIC: PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR PASPBERRY PI

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Project Title	SmartFarmer - IoT Enabled Smart Farming application
Maximum Marks	2 marks

LED BLINKING CODE:

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False) GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
```

```
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)
```

TRAFFIC LIGHT CODE:

```
from gpiozero import LED
from time import sleep
red = LED(22)
yellow = LED(27)
green = LED(17)
```

```
while True:
    red.on()
    sleep(15)
    red.off()
    sleep(1)
    yellow.on()
    sleep(10)
    yellow.off()
    sleep(1)
    green.on()
    sleep(10)
    green.off()
    sleep(1)
```