

ASSIGNMENT – 3

PROJECT TITLE:

IoT Based Smart Crop Protection System for Agriculture

TEAM DETAILS:

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ASSIGNMENT TASK – 1 DETAIL:

TASK 1: WRITE A PYTHON CODE FOR BLINKING THE LED FOR RASBERRY PI

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)
```

ASSIGNMENT TASK - 2 DETAIL:

TASK 2: WRITE A PYTHON CODE FOR TRAFFIC LIGHTS FOR RASBERRY PI

CODE:

```
import RPi.GPIO as GPIO  
from gpiozero import LED  
from time import sleep
```

```
red = LED(22)  
amber = LED(27)  
green = LED(17)
```

```
while True:  
    red.on()  
    sleep(1)  
    amber.on()  
    sleep(1)  
    green.on()  
    sleep(1)  
    red.off()  
    sleep(1)  
    amber.off()  
    sleep(1)  
    green.off()
```