

ASSIGNMENT – III

DOMAIN: IOT

PROJECT TITLE: Smart Farmer – IOT Enabled Smart Farming Application

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ASSIGNMENT TITLE:

Write a python code for blinking LED ad Traffic lights for Raspberry pi.

Blinking LED:

```
import RPi.GPIO as GP from time import sleep
GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)
while True:                #infinite loop
    GP.output(8, GPIO.HIGH)  # Turn on
    print("The LED is ON")
    sleep(2)                # Sleep for 2 second
    GP.output(8, GPIO.LOW)   # Turn off
    print("The LED is OFF")
    sleep(2)                # Sleep for 2 s
```



Traffic Light Controller:

```
from gpiozero import LED
from time import sleep

red= LED(17)          #pin numbers connected to Led's
aster=(22)
green=(27)

while True:

    red.on()           #RED light

    print("Red light is ON")

    for i in range(100,0,-1):

        print("Remaining time: ",i)

        sleep(1)

    red.off()

    aster.on()         # ASTER light

    print("Yellow light is ON")

    for i in range(5,0,-1):

        print("Remaining time: ",i)

        sleep(1)

    aster.off()

    green.on           #GREEN light
```

```
print("Green light is ON")  
for i in range(30,0,-1):  
    print("Remaining time: ",i)  
    sleep(1)  
green.off()
```

