

## ASSIGNMENT – III

### DOMAIN: IOT

**PROJECT TITLE:** Smart Farmer – IOT Enabled SmartFarming Application

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Maximum Marks	2 Marks

### ASSIGNMENT TITLE:

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

## **Blinking LED:**

```
import RPi.GPIO as GP from time import
sleepGP.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
LEDfrom time import
sleep
red= LED(17)          #pin numbers connected to
Led'saster=(22)
green=(27)
while
True:
    red.on()          #RED
    lightprint("Red light is ON")
    for i in range(100,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    red.off()
    aster.on()        # ASTER
    lightprint("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()
```

