

ASSIGNMENT – III

PROJECT TITLE : SMART FARMER – IOT ENABLED
SMART FARMING APPLICATION

ASSIGNMENT TITLE : WRITE A PYTHON CODE FOR
BLINKING LED AD TRAFFIC LIGHTS FOR RASPBERRY
PI

BATCH NO : (PNT2022TMID08084)

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()
```