

# Assignment 3:

## IOT Enabled Smart Farming Application"

**Batch NO: B9-3A5E**

Assignment 3:

Write python code for blinking LED and Traffic lights for Raspberry Pi:

### LED Code:

```
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 and print("The LED is ON")
    sleep(2)                                # Sleep for 2 second

    GP.output(8, GPIO.LOW)                  # Turn off and print("The LED is OFF")
    sleep(2)                                # Sleep for 2 second
```

### Traffic lights Code:

```
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):
        pint("Remaining time: ",i)
        Sleep(1)
        Green.off()
```

DONE BY

BATCH NO: B9-3A5E (917719D023, 917719D011, 917719D049, and 19D069)