

Assignment -3

Assignment Date	20 October 2022
Team ID	PNT2022TMID38150
Project Name	Project-Smart Farmer-IoT Enabled Smart Farming Application

#LED BLINKING

```
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:          #infinite loop
    GPIO.output(8, GPIO.HIGH)      # Turn on
    print("The LED is ON")
    sleep(5)          # Sleep for 5 second

    GPIO.output(8, GPIO.LOW)       # Turn off
    print("The LED is OFF")
    sleep(5)          # Sleep for 5 second
```

#Traffic Light

```
from gpiozero import LED
from time import sleep
```

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

```
while True:
    red.on()      #RED light
    print("Red light is ON")
    for i in range(60,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    red.off()

    amber.on()    # AMBER light
    print("Yellow light is ON")
    for i in range(5,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    amber.off()

    green.on      #GREEN light
    print("Green light is ON")
    for i in range(40,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    green.off()
```