ASSIGNMENT – III

DOMAIN: IOT

PROJECT TITLE: Smart Farmer - IOT Enabled Smart

Farming Application

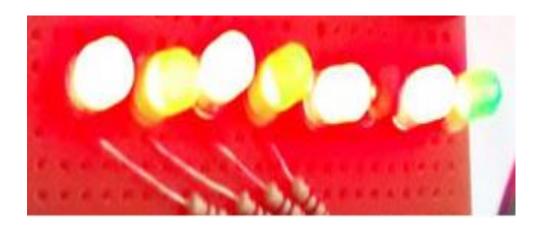
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ASSIGNMENT TITLE:

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 light
  green.on
```

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

