SMART FARMER IOT ENABLED SMART FARMING APPLICATION

ASSIGNMENT-03

SUBMITTED BY

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

Python 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
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()
```