

ASSIGNMENT 3:

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PROJECCT TITLE : **SmartFarmer - IoT Enabled Smart Farming Application**

PYTHON CODE FOR 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: GP.output(8,GPIO.HIGH)
Print("The LED is ON") Sleep(2)
GP.output(8,GPIO.LOW)
Print("The LED is OFF")
Sleep(2)
```

PYTHON CODE FOR TRAFFIC LIGHT CONTROLLER

```
from gpiozero import LEDfrom time
import sleep red = LED(17)
aster = (22)
green = (27)while True:
red.on()
print("Red light is ON")
for i in range(100,0,-1):
print("Remaining time: ",i)
```

```
sleep(1)
red.off()
aster.on()
print("Yellow light is ON")
for I IN RANGE(5,0,-1):
    print("Remaining time: ".i)
    sleep(1)
    aster.off()
    green.on
    print("Green light is ON")
    for I in range(30,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    green.off()
```