

### ASSIGNMENT 3:

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

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CODE:

#### 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 LED
```

```
from 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()
```