

SMART FARMING -IOT ENABLED SMART FARMING APPLICATION

Assignment 3

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LED BLINKING 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 second
```

TRAFFIC LIGHT RASBERRY PYTHON CODE

```
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()