

**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()
```



STOP



WAIT



GO