

ASSIGNMENT – III

DOMAIN: IOT

PROJECT TITLE: Smart Farmer – IOT Enabled Smart Farming Application

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ASSIGNMENT TITLE:

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

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)
```

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()
```

