

ARUNAI Engineering College

TIRUVANNAMALAI-606603

Department of Computerscience and Engineering

ASSIGNMENT – III

IOT Assignment

PROJECT TITLE: Smart Farmer – IOT Enabled Smart Farming
Application

Name : Dinakaran C

ASSIGNMENT TITLE:

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
```

ASSIGNMENT TITLE:

TRAFFIC LIGHTRASBERRY

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()