

## IBM ASSIGNMENT - 3

Team ID	PNT2022TMID00072
Project Name	Project – SmartFarmer-IOT Enabled Smart Farming Application

### 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 PI 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()
```