

ASSIGNMENT-3

Date	02 OCTOBER 2022
Team ID	PNT2022TMID47521
Project Name	IOT based smart crop protection system for agriculture
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Write python code for blinking LED and Traffic lights for Raspberry pi.

CODING:

```
Import RPi.GPIO as GPIO
```

```
Import time
```

```
#assign numbering for the GPIO using BCM
```

```
GPIO.setmode(GPIO.BCM)
```

```
#assign number for the GPIO using Board
```

```
#GPIO.setmode(GPIO.BOARD)
```

```
Cnt = 0
```

```
MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds
```

```
RED_LED = 4
```

```
GPIO.setup(RED_LED, GPIO.OUT)
```

```
While True:
```

```
    If cnt == 0 :
```

```
        GPIO.output(RED_LED, False)
```

```
        Cnt = 1
```

```
    Else:
```

```
        GPIO.output(RED_LED, True)
```

```
        Cnt = 0
```

```
Time.sleep(MAIL_CHECK_FREQ)
```

```
GPIO.cleanup()
```