

ASSIGNMENT-3

Date	02 OCTOBER 2022
Team ID	PNT2022TMID47521
Project Name	IOT based smart crop protection system for agriculture
Student name	B.Rajeshwari
Roll number	910419104017

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()
```