

Assignment – III

Python code for blinking LED and Traffic Lights for Raspberry Pi

Blink an LED

```
import RPi.GPIO as gpio
```

```
from time import sleep
```

```
gpio.setwarnings(False)
```

```
gpio.setmode(GPIO.BOARD)
```

```
gpio.setup(10, GPIO.OUT, initial=GPIO.LOW)
```

```
while True:
```

```
    gpio.output(10, GPIO.HIGH)
```

```
    sleep(1)
```

```
    gpio.output(10, GPIO.LOW)
```

```
    sleep(1)
```

Traffic Light

```
import RPi.GPIO as gpio
```

```
from time import sleep
```

```
gpio.setwarnings(False)

gpio.setmode(GPIO.BOARD)

gpio.setup(30, GPIO.OUT, initial=GPIO.LOW) # Red
gpio.setup(31, GPIO.OUT, initial=GPIO.LOW) # Yellow
gpio.setup(32, GPIO.OUT, initial=GPIO.LOW) # Green
```

```
while True:

    gpio.output(30, GPIO.HIGH)

    sleep(50)

    gpio.output(31, GPIO.HIGH)

    sleep(5)

    gpio.output(30, GPIO.LOW)

    sleep(5)

    gpio.output(31, GPIO.LOW)

    gpio.output(32, GPIO.HIGH)

    sleep(50)

    gpio.output(32, GPIO.LOW)

    gpio.sleep(1)
```