

ASSIGNMENT – 03

PYTHON IDE PROGRAMMING

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WRITE A PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT.

PROGRAM

Python code

Blink an LED

import RPi.GPIO as gpio

from time import sleep

gpio.setwarnings(False)

gpio.setmode(GPIO.BOARD)

gpio.setup(23, GPIO.OUT, initial=GPIO.LOW)

while True:

gpio.output(23, GPIO.HIGH)

sleep(1)

gpio.output(23, GPIO.LOW)

sleep(1)

Traffic Light

import RPi.GPIO as gpio

from time import sleep

gpio.setwarnings(False)

gpio.setmode(GPIO.BOARD)

```
gpio.setup(23, GPIO.OUT, initial=GPIO.LOW) # Red
gpio.setup(24, GPIO.OUT, initial=GPIO.LOW) # Yellow
gpio.setup(25, GPIO.OUT, initial=GPIO.LOW) # Green
```

```
while True:
```

```
    gpio.output(23, GPIO.HIGH)
    sleep(50)
    gpio.output(24, GPIO.HIGH)
    sleep(5)
    gpio.output(23, GPIO.LOW)
    sleep(5)
    gpio.output(24, GPIO.LOW)
    gpio.output(25, GPIO.HIGH)
    sleep(50)
    gpio.output(25, GPIO.LOW)
    gpio.sleep(1)
```