



ASSIGNMENT 3

Write Python Code for Blinking LED and Traffic Lights for Raspberry pi

LED Blinking Python Code

```
import RPi.GPIO as GPIO

import time ledPin = 22

def setup():

    GPIO.setmode(GPIO.BOARD)

    GPIO.setup(ledPin, GPIO.OUT)

    GPIO.output(ledPin, GPIO.LOW) def

loop():

    while True:

        print 'LED on'

        GPIO.output(ledPin, GPIO.HIGH)
        time.sleep(1.0) print

        'LED off'
```

```

GPIO.output(ledPin, GPIO.LOW)

time.sleep(1.0) def endprogram():

    GPIO.output(ledPin, GPIO.LOW)

    GPIO.cleanup() if
__name__ == '__main__':

    setup()

    try:

        loop() except

        KeyboardInterrupt:

            endprogram()

```

Traffic Light Python Code

```

from gpiozero import LED

from time import sleep

red=LED(17)

yellow=LED(22)

green=LED(27) While True:

    red.on() sleep(15)

    red.off() sleep(1)

    yellow.on()

```



sleep(10)

yellow.off() sleep(1)

green.on() sleep(10)

green.off() sleep(1)