

ASSIGNMENT 3

Assignment Date	19 September 2022
Student Name	Gayathri.K
Student Roll Number	421319106009
Maximum Marks	2 Marks

Question:

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

LED Blinking Python Code

```
import RPi.GPIO as GPIO

import time ledPin = 25

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(3.0)
    print

    'LED off'

    GPIO.output(ledPin, GPIO.LOW)

time.sleep(3.0) 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(18)
yellow=LED(19)
green=LED(28)    while
True: red.on() sleep(16)
    red.off() sleep(2)
    yellow.on()
    sleep(14)
    yellow.off()
    sleep(2)
    green.on()
    sleep(13)
    green.off()
    sleep(2)
```