

ASSIGNMENT 3

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Question: -

Write a python code for Blinking LED and Traffic lights for Raspberry pi.

LED Blinking: -

```
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)
```