ASSIGNMENT 3
TEAM ID PNT2022TMID01063

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LED BLINKING USING RASPBERRY PI:

PYTHON CODE:

```python
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)
```

```python
        time.sleep(1.0)
def endprogram():


    GPIO.output(ledPin, GPIO.LOW)
    GPIO.cleanup()


if __name__ == '__main__':
    setup()
    try:
        loop()
    except KeyboardInterrupt:
        endprogram()
```

TRAFFIC LIGHT USING RASPBERRY PI:

PYTHON CODE:

```python
from gpiozero import LED
from time import sleep
red=LED(22)
orange=LED(27)
green=LED(17)
while True:
    red.on()
    sleep(1)
    orange.on(1)
```

```
sleep(1)
green.on()
sleep(1)
red.off()
sleep(1)
orange.off()
sleep(1)
green.off()
```