

ASSIGNMENT 3

TEAM ID PNT2022TMID01063

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LED BLINKING USING RASPBERRY PI:

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 USING RASPBERRY PI:

PYTHON CODE:

```
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()