

# ASSIGNMENT 3

TEAM ID PNT2022TMID01063

DONE BY ----- K.MADHUMETHA (211419106153) [TEAMLEADER]

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()