

ASSIGNMENT-3

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Python code for blinking LED

Program:

```
import Rpi.GPIO as GPIO

import time

LED_PIN=17

GPIO.setmode(GPIO.BCM)

GPIO.setup(LED_PIN,GPIO.OUT)

while true:

    GPIO.output(LED_PIN,GPIO.HIGH)

    time.sleep(1)

    GPIO.output(LED_PIN,GPIO.LOW)

    time.sleep(1)

GPIO.cleanup()
```

Traffic light

```
From gpiozero import Button, TrafficLights, Buzzer

from time import sleep

buzzer = Buzzer(15)
```

```
button = Button(21)
```

```
lights = TrafficLights(25, 8, 7)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    buzzer.on()
```

```
    light.green.on()
```

```
    sleep(1)
```

```
    lights.amber.on()
```

```
    sleep(1)
```

```
    lights.red.on()
```

```
    sleep(1)
```

```
    lights.off()
```

```
    buzzer.off()
```