

### CODE FOR LED BLINK

```
import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now
import time

ledPin = 22 # pin22

def setup():
    GPIO.setmode(GPIO.BOARD) # GPIO Numbering of Pins
    GPIO.setup(ledPin, GPIO.OUT) # Set ledPin as output
    GPIO.output(ledPin, GPIO.LOW) # Set ledPin to LOW to turn Off the LED

def loop():
    while True:
        print 'LED on'
        GPIO.output(ledPin, GPIO.HIGH) # LED On
        time.sleep(1.0) # wait 1 sec
        print 'LED off'
        GPIO.output(ledPin, GPIO.LOW) # LED Off
        time.sleep(1.0) # wait 1 sec

def endprogram():

    GPIO.output(ledPin, GPIO.LOW) # LED Off
    GPIO.cleanup() # Release resources

if __name__ == '__main__': # Program starts from here
```



```
setup()

try:
    loop()
except KeyboardInterrupt: # When 'Ctrl+C' is pressed, the destroy() will be executed.
    endprogram()
```

#### CODE FOR 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()
```