

## **Python code for Blinking led for raspberry pi**

```
import RPi.GPIO as GPIO

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()
```

## Python code traffic lights for raspberry pi

```
import RPi.GPIO as GPIO
import time

GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(4, GPIO.IN, pull_up_down = GPIO.PUD_DOWN)
GPIO.setup(17, GPIO.OUT, initial = GPIO.HIGH)
GPIO.setup(27, GPIO.OUT, initial = GPIO.HIGH)
GPIO.setup(18, GPIO.OUT, initial = GPIO.HIGH)
GPIO.setup(22, GPIO.OUT, initial = GPIO.LOW)

x = 1
try:
    while True:
        if(GPIO.input(4) == True):
            while(x == 1):
                GPIO.output(17, GPIO.LOW)
                GPIO.output(22, GPIO.HIGH)
                time.sleep(2)
                GPIO.output(22, GPIO.LOW)
                GPIO.output(27, GPIO.LOW)
                time.sleep(3)
                GPIO.output(17, GPIO.HIGH)
                GPIO.output(27, GPIO.HIGH)
                GPIO.output(18, GPIO.LOW)
                time.sleep(5)
                GPIO.output(18, GPIO.HIGH)
                time.sleep(2)
            except Exception as ex:
                print("error occurred",ex)
            finally:
                GPIO.cleanup()
```