## PYTHON CODE FOR LED BLINKING FOR RASPBERRY PI

```
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)
```

## PYTHON CODE FOR TRAFFIC LIGHTS FOR RASPBERRY PI

```
import RPi.GPIO as GPIO
import time

try:
    def lightTraffic(led1, led2, led3, delay ):
        GPIO.output(led1, 1)
        time.sleep(delay)
        GPIO.output(led2, 0)
        GPIO.output(led2, 1)
        time.sleep(delay)
```

```
GPIO.output(led3, 1)
 time.sleep(delay)
  GPIO.output(led3, 0)
 GPIO.setmode(GPIO.BCM)
 button = 19
 GPIO.setup(button, GPIO.IN, pull_up_down=GPIO.PUD_UP)
 ledGreen = 16
 ledYellow = 12
 ledRed = 23
 GPIO.setup(ledGreen, GPIO.OUT)
 GPIO.setup(ledYellow, GPIO.OUT)
 GPIO.setup(ledRed, GPIO.OUT)
 while True:
  input_state = GPIO.input(button)
  if input_state == False:
   print('Button Pressed')
   lightTraffic(ledGreen, ledYellow, ledRed, 1)
  else:
   GPIO.output(ledGreen, 0)
   GPIO.output(ledYellow, 0)
   GPIO.output(ledRed, 0)
except KeyboardInterrupt:
 print "You've exited the program"
finally:
 GPIO.cleanup()
```