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) GPIO.cleanup() 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(led1, 0) GPIO.output(led2, 1) time.sleep(delay) GPIO.output(led2, 0) 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()
```