

# ASSIGNMENT 3

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Question:

**Write a python code for blinking LED and Traffic lights using Raspberry pi.**

```
#Blinking LED
import RPi.GPIO as GPIO
import time
redLED = 4
GPIO.setmode(GPIO.BCM)
while True:
    GPIO.setup(redLED,GPIO.OUT)
    GPIO.output(redLED,True)
    Time.sleep(0.5)
    GPIO.output(redLED,False)
    Time.sleep(0.5)
GPIO.cleanup()

#Traffic Light
import RPi.GPIO as GPIO
import time
import signal
import sys
#setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)

GPIO.setup(11,GPIO.OUT)
#Turn off all lights when user ends demo
def allLightsOFF(signal
frame):
    GPIO.output (9, False)
    GPIO.output(10, False)
```

```
GPIO.output(11, False) GPIO.cleanup() sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff) # Loop forever while True:
# Red
GPIO.output(9, True) time.sleep(3) # Red
and amber
GPIO.output(10, True) time.sleep(1)
# Green
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, True) time.sleep(5)
# Amber
GPIO.output(11, False)
GPIO.output(10, True) time.sleep(1)
# Amber off (red comes on at top of loop)
GPIO.output(10, False)
```