

## **IOT ASSIGNMENT- 03**

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**TOPIC:** Python code for blinking LED and Traffic lights for Raspberry pi

### **Blinking LED:**

```
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11, GPIO.OUT)
GPIO.setup(12, GPIO.OUT)
GPIO.setup(13, GPIO.OUT)
while True:
    GPIO.output(11,True) ## Turn on redLed
    time.sleep(1)      ## Wait for one second
    GPIO.output(11,False) ## Turn off redLed
    time.sleep(1)      ## Wait for one second
    GPIO.output(12,True) ## Turn on yellowLed
    time.sleep(1)      ## Wait for one second
    GPIO.output(12,False) ## Turn off yellowLed
    time.sleep(1)      ## Wait for one second
    GPIO.output(13,True) ## Turn on greenLed
    time.sleep(1)      ## Wait for one second
    GPIO.output(13,False) ## Turn off greenLed
```

```
time.sleep(1)    ## Wait for one second  
GPIO.cleanup( )
```

### **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()
```