

IBM ASSIGNMENT 3

Team ID	PNT2022TMID32813
Project Name	Project - INDUSTRY-SPECIFIC INTELLIGENCE FIRE MANAGEMENT SYSTEM
Date	5 th oct 2022

Question:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only Python code is enough, no need to execute in raspberry pi.

Note: You are allowed to use web search and complete the assignment.

Solution:

Program for LED interface with Raspberry pi:

```
from gpiozero import Button, LED
```

```
led = LED(25)
```

```
button = Button(21)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    led.on()
```

```
    print("Pressed")
```

```
    button.wait_for_release()
```

```
    led.off()
```

```
    print("Released")
```

Program for Traffic lights control:

```
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()
```