

ASSIGNMENT 3

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()