

Assignment 3

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Maximum Marks	2 marks

Question 01

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

Solution:

Code 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")
```

Code for Traffic light

```
from gpiozero import LED
```

```
from time import sleep
```

```
red = LED(22)
```

```
amber = LED(27)
```

```
green = LED(17)
```

```
while True:
```

```
    red.on()
```

sleep(1)

amber.on()

sleep(1)

green.on()

sleep(1)

red.off()

sleep(1)

amber.off()

sleep(1)

green.off()