

### Assignment - 3

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|-------------------------|----------------|
| Assignment Date         | 9 October 2022 |
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#### Question-1: Write a python code for Blinking LED for Raspberry pi.

```
import RPi.GPIO as GPIO          # Import Raspberry Pi GPIO library
from time import sleep           # Import the sleep function from the time module
GPIO.setwarnings(False)         # Ignore warning for now
GPIO.setmode(GPIO.BOARD)        # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin
while True:                      # Run forever
    GPIO.output(8, GPIO.HIGH)    # Turn on
    sleep(1)                    # Sleep for 1 second
    GPIO.output(8, GPIO.LOW)    # Turn off
    sleep(1)                    # Sleep for 1 second
```

#### Question-2: Write a python code for Traffic lights for Raspberry pi

```
from gpiozero import Buzzer, Button, TrafficLights
from time import sleep
```

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

```
buzzer = Buzzer (15)
```

```
lights = TrafficLights(25,8,7)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    buzzer.on()
```

```
    lights.green.on()
```

```
    sleep(1)
```

```
    lights.amber.on()
```

```
    sleep(1)
```

```
    lights.red.on()
```

```
    sleep(1)
```

```
    buzzer.off()
```

```
    lights.off()
```