# ASSIGNMENT 3 PYTHON PROGRAMMING - 2

Assignment Date	3 October 2022
Student Name	DEVIBALA V
Student Roll Number	411919104004
Maximum Marks	2 marks

#### Question - 1

Write Python code for Blinking LED and Traffic Lights for Raspberry Pi. Only the Python code is enough and need not to execute it on the board.

## Solution

## Blinking of an LED

```
# Using in-built functions
from gpiozero import Button, LED, Buzzer
#connecting led button & buzzer to gpio pins
led = LED(18)
button = Button(16)
buzzer = Buzzer(7)
#blinking led based on button press
while True:
button.wait_for_press()
led.blink(1,1)
buzzer.on()
button.wait_for_release()
led.off()
buzzer.off()
```

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```

#### **Traffic Lights**

```
# Creating Traffic light using RaspberryPi
from gpiozero import TrafficLights, Button
from time import sleep
signal = TrafficLights(22,8,7)
button = Button(16)
while True:
button.wait_for_press()
signal.red.on()
sleep(1)
signal.amber.on()
sleep(1)
signal.green.on()
sleep(1)
signal.off()
```

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signal.off()
```