

**Assignment -3**  
Python Programming

Assignment Date	06-October 2022
Student Name	J. Jeen Liberta
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Maximum Marks	2 Marks

**Question-1:**

Write python code for blinking LED and Traffic light for Raspberry pi. only python code is enough.

**Solution:**

```
import RPi.GPIO as GPIO
import time

try:
    def lightTraffic(led1, led2,
led3, delay):'
        GPIO.output(led1, 1)
        time.sleep(delay)
        GPIO.output(led1, 0)
        GPIO.output(led2, 1)
        time.sleep(delay)
        GPIO.output(led2, 0)
        GPIO.output(led3, 1)
        time.sleep(delay)
        GPIO.output(led3, 0)
    GPIO.setmode(GPIO.BCM)
    button = 19
    GPIO.setup(button,
GPIO.IN,
pull_up_down=GPIO.PUD_UP)
    ledGreen = 16
    ledYellow = 12
    ledRed = 23
    GPIO.setup(ledGreen,
GPIO.OUT)
    GPIO.setup(ledYellow,
GPIO.OUT)
    GPIO.setup(ledRed,
GPIO.OUT)
    while True:
```

```
    input_state =
GPIO.input(button)
    if input_state == False:
        print('Button Pressed')
        lightTraffic(ledGreen,
ledYellow, ledRed, 1)
    else:
        GPIO.output(ledGreen,
0)
        GPIO.output(ledYellow,
0)
        GPIO.output(ledRed, 0)
except KeyboardInterrupt:
    print "You've exited the
program"
finally:
    GPIO.cleanup
```