

Assignment -3

PYTHON PROGRAMMING

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| Assignment Date | 5 October 2022 |
| Student Name | M.NARENDRA YADAV |
| Student Roll Number | 721419106021 |
| Maximum Marks | 2 Marks |

Question-1: write python code for blinking LED and Traffic lights for Raspberry pi.

Solution:

BLINKING LED

CODE

```
from gpiozero import LED
from time import sleep
led = LED(23) while True:
led.on()    print("LED
ON")
    sleep(1)
led.off()
```

```
print("LED OFF")  
sleep(1)
```

TRAFFIC LIGHTS

CODE

```
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()
```