

ASSIGNMENT – 3

PYTHON PROGRAMMING

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| Assignment Date | 19 September 2022 |
| Student Name | Kishore Kumar S |
| Student Roll Number | 73771914129 |
| Maximum Marks | 2 Marks |

QUESTION:

Write a Python code for blinking LED and Traffic Lights for Raspberry Pi.

SOLUTION:

```
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.red.on()

    sleep(1)

    lights.amber.on()

    sleep(1)

    lights.green.on()

    sleep(1)

    lights.off()

    buzzer.off()
```

GPIO PIN DIAGRAM:



GPIO PINS USED:

- GP 21-BUTTON
- GP 15 – BUZZER
- GP 25 – RED LED
- GP 8 – YELLOW LED
- GP 7 – GREEN LED