

ASSIGNMENT – 3

PYTHON PROGRAMMING

Assignment Date	19 September 2022
Student Name	Manikandan S
Student Roll Number	73771914133
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