

ASSIGNMENT 3

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| Date | 30 September 2022 |
| Name | PRAKASH M |
| Team ID | PNT2022TMID50941 |
| Project Name | Project - Personal Assistance for Seniors Who Are Self-Reliant |
| Maximum Marks | 4 Marks |

QUESTION:

Write a Python Program for blinking LED and Traffic Lights for Raspberry pi.

SOLUTION:

```
import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT) while True: GPIO.output(11,True)

time.sleep(1)

GPIO.output(11,False)

time.sleep(1)

from gpiozero import Button, TrafficLights, Buzzer buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7) while True: button.wait_for_press()

light.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)
```

lights.off() while True:

lights.on()

buzzer.off()

button.wait_for_press()

lights.off()

buzzer.on()

button.wait_for_release() while True:

lights.blink()

buzzer.beep()

button.wait_for_press()

lights.off()

buzzer.off()

button.wait_for_release()