Assignment -3

Date	30 September 2022
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Project Name	PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT USING IoT TECHNOLOGY
Maximum Marks	2 Marks

Question-1

Write Python code for blinking LED and traffic lights for Raspberry Pi.

Solution:

1.Python code for Blinking LED Using Raspberry pi

```python
from gpiozero import LED            # importing GPIO pins as LED

from time import sleep             # importing time function as sleep

led = LED(16)                      #  LED is connected to GPIO 16


while True:                        # infinite loop

    led.on()                       # LED is on for 1 second

    sleep(1)

    led.off()                      # LED is off for 1 second

    sleep(1)
```

2.Python code for Blinking Traffic Lights Using Raspberry pi

```python
from gpiozero import LED                # importing GPIO pins as LED
from time import sleep                  # importing time function as sleep
red = LED(22)                           # red LED connected to GPIO 22
yellow = LED(09)                        # yellow LED connected to GPIO 09
green = LED(17)                         # green LED connected to GPIO 17


while True:                             # infine loop
    red.on()                           # red LED is on for 5 seconds to make stop
    sleep(5)
    red.off()


    yellow.on()                        # yellow LED is on for 2 seconds to make ready
    sleep(2)
    yellow.off()


    green.on()                         # green LED is on for 5 seconds to make go
    sleep(5)
    green.off()
```