Assignment -3

Date	30 September 2022
Student name	VENKATA SUNITHA D
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

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

```
from gpiozero import LED
                                                # importing GPIO pins as LED
from time import sleep
                                                # importing time function as sleep
                                                # red LED connected to GPIO 22
red = LED(22)
yellow = LED(09)
                                               # yellow LED connected to GPIO 09
green = LED(17)
                                               # green LED connected to GPIO 17
                                               # infine loop
while True:
                                              # red LED is on for 5 seconds to make stop
     red.on()
      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()
```