### Assignment -3

Assignment Date	06 October 2022
Student Name	Soundararajan J
Student Roll Number	811519106138
Maximum Marks	2 Marks

#### **Question-1:**

## Write a python code for led blinking in raspberry pi SOLUTION:

import RPI.GPIO as GPIO # Import Raspberry Pi GPIO library from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now
GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin
and set initial value tolow (off)

while True: # Run forever

GPIO.output(8, GPIO.HIGH) # Turn on
sleep(1) # Sleep for 1 second

GPIO.output(8, GPIO.LOW) # Turn off
sleep(1) # Sleep for 1 second

### **Question-2:**

# Write a python code for traffic light in raspberry pi SOLUTION:

```
from gpiozero import Button, TrafficLights, Buzzer from time import sleep
```

```
buzzer = Buzzer(17)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
```

buzzer.off()