Assignment Date	05 October 2022
Student Name	Nithishkumar B
Student Roll Number	713119104012
Maximum Marks	2 Marks

1 Raspberry Pi Program to Blink A LED

```
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 to low (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
```

2 Raspberry Pi Program for Traffic Light

```
from gpiozero import Buzzer from gpiozero import Button
from gpiozero import LED from time import sleep button
= Button (21) buzzer = Buzzer (15) redled = LED(25)
yellowled = LED(8) greenled = LED(7) while True: if
button.is_pressed:
     redled.on()
     buzzer.on()
     sleep(2)
     redled.off()
     buzzer.off()
     yellowled.on()
     sleep(2)
     yellowled.off()
     greenled.on()
     sleep(2)
     greenled.off()
     break
```