| | |
|---|---|
| Assignment Date | 02 October 2022 |
| Student Name | Gospel Mathew |
| Student Roll Number | 310819106028 |
| 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
```