

### ASSIGNMENT-3

Assignment Date	18 October 2022
Student Name	M.Pavithra
Student Roll Number	73151921034
Maximum Marks	2 Marks

#### QUESTION-1:

Write python code for blinking LED and Traffic lights for Raspberry pi.

#### LED CODE:

```
import RPi.GPIO as GPIO
```

```
from time import sleep
```

```
GPIO.setwarnings(False)
```

```
GPIO.setmode(GPIO.BOARD)
```

```
GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW)
```

```
while True:
```

```
    GPIO.output(8,GPIO.HIGH)# on
```

```
    sleep(5)
```

```
    GPIO.output(8,GPIO.LOW)# off
```

```
    sleep(5)
```

**TRAFFIC LIGHT CODE:**

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

```
from time import sleep
```

```
buzzer=Buzzer(18)
```

```
button=Button(30)
```

```
lights=TrafficLights(20,5,6)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    buzzer.on()
```

```
    lights.green.on()
```

```
    sleep(5)
```

```
    lights.amber.on()
```

```
    sleep(2)
```

```
    lights.red.on()
```

```
    sleep(3)
```

```
    lights.off()
```

```
    buzzer.off()
```