

ASSIGNMENT – 3

Assignment Date	08-10-2022
Student Name	Aathira S
Student Roll Number	960219106001
Maximum Marks	2 marks

QUESTION :

Write a python code for Blinking LED and Traffic lights for Raspberry pi.

CODE :

```
import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT)

while True:

    GPIO.output(11,True)

    time.sleep(1)

    GPIO.output(11,False)

    time.sleep(1)

from gpiozero import Button, TrafficLights, Buzzer

buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)

while True:
```

```
button.wait_for_press()
```

```
light.green.on()
```

```
sleep(1)
```

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

```
sleep(1)
```

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

```
sleep(1)
```

```
lights.off()
```

```
while True:
```

```
lights.on()
```

```
buzzer.off()
```

```
button.wait_for_press()
```

```
lights.off()
```

```
buzzer.on()
```

```
button.wait_for_release()
```

```
while True:
```

```
lights.blink()
```

```
buzzr.beep()
```

```
button.wait_for_press()
```

```
lights.off()
```

```
buzzer.off()
```

```
button.wait_for_release()
```