

## ASSIGNMENT – 3

Assignment Date	08-10-2022
Student Name	Athira I
Student Roll Number	960219106045
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()
    buzzer.beep()
    button.wait_for_press()
    lights.off()
    buzzer.off()
    button.wait_for_release()
```