# ASSIGNMENT-3

## Python Program

| Assignment Date | 03 October 2022 |
|---|---|
| Student Name | A.Laiyancemary |
| Student Roll Number | 812019106016 |
| Maximum Marks | 2 Marks |

## Question-1

Write python code for blinking LED and Traffic lights for Raspberry pi.Only python code is enough, no need to execute inraspberry pi.

**Code:**

```
#Blinking LED

import RPi.GPIO as GPIO import
time GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(18,GPIO.OUT)
print("LED on")
GPIO.output(18,GPIO.HIGH)
time.sleep(1)
print("LED off")
GPIO.output(18,GPIO.LOW)
```

```python
#Traffic Light

from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)


#Button                21
#Red LED               25
#Yellow LED            08
#Green LED             07
#Buzzer                15
while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```

## In Compiler:

```python
#Blinking LED

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import time
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
GPIO.setup(18,GPIO.OUT)
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GPIO.output(18,GPIO.HIGH)
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    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```