Assignment -3

Python Programming

Assignment Date	30 September 2022
Student Name	A.Nithyasri
Student Roll Number	211419106184
Maximum Marks	2 Marks

Question-1:

Write a python code for blinking LED for Raspberry pi.

Solution:

```
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)
 sleep(1)
 GPIO.output(8, GPIO.LOW)
 sleep(1)
```

led.py - C:\Users\nithy\python 3.7\led.py (3.7.0)

File Edit Format Run Options Window Help

```
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)
 sleep(1)
 GPIO.output(8, GPIO.LOW)
 sleep(1)
```

Question-2:

Write a python program for Traffic lights for Raspberry pi.

Solution:

```
 from gpiozero
importButton,TrafficLights,Buzzer
from time import sleep

buzzer = Buzzer(15)
button = Button(21)
lights=TrafficLights(25,8,7)

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()
```

traff.py - C:/Users/nithy/python 3.7/traff.py (3.7.0)

File Edit Format Run Options Window Help

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

buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)

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()
```