Assignment -3

Assignment Date	06 October 2022
Student Name	Senthil Raja G
Student Roll Number	811519106133
Maximum Marks	2 Marks

Question-1:

Write a python code for led blinking in raspberry pi

SOLUTION:

import RPI.GPIO as GPIO # Import Raspberry Pi GPIO library

from time import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now

GPIO.setmode(GPIO.BOARD) # Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and set initial value to low (off)

while True: # Run forever

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

  sleep(1) # Sleep for 1 second

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

  sleep(1) # Sleep for 1 second

Question-2:

Write a python code for traffic light in raspberry pi
SOLUTION:

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


buzzer = Buzzer(17)
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()
```