Assignment -3

Python Programming

Assignment Date	02 October 2022
Student Name	JAISHREE J
Student Roll Number	GCTC1914116
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:
               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()
**assignment3.py-C/Users/ARUN VIKRAM/AppData/Local/Programs/Python/Python310/assignment3.py (3.10.1)*
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    sleep(1)
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    sleep(1)
    lights.off()
    buzzer.off()
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