## Assignment -3

# **Python Programming**

Assignment Date	02 October 2022
Student Name	Mr. Tamilarasan M
Student Roll Number	GCTC1914L14
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()
```