#### Assignment -3

### **Python Programming**

Assignment Date	08 October 2022
Student Name	R.Manikandan
Student Roll Number	710419106018
Maximum Marks	2 Marks

## Question:

Write a python code for blinking LED and Traffic lights for Raspberry pi.

## **Solution:**

## **For LED:**

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)

# **For Traffic Lights:**

import Rpi.GPIO as GPIO import time import signal import sys GPIO.setmode(GPIO.BCM) GPIO.setup(9,GPIO.OUT)

```
GPIO.setup(10,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)
def allLightsOff(signal,framer):
GPIO.output(9,False)
GPIO.output(10,False)
GPIO.output(11,False)
GPIO.cleanup()
sys.exit(0)
signal.signal(signal.SIGINT,allLightsOff)
while True:
#Red
GPIO.output(9,True)
Time.sleep(3)
#Red and amber
GPIO.output(10,True)
Time.sleep(1)
#Green
GPIO.output(9,False)
GPIO.output(10,False)
GPIO.output(11,True)
Time.sleep(5)
#Amber
GPIO.output(11,False)
GPIO.output(10,True)
Time.sleep(2)
#Amber off(red comes on at top of loop)
GPIO.output(10,False)
```