## **Assignment-3**

## **Python Programming**

Assignment Date	5 October 2022
Student Name	Mr.Prabhu
Student Roll Number	923819106038
Maximum Marks	2 Marks

# **Question-1:**

Write 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) # Set pin 8 to be an output pin and set initial value to low (off)

while True:

GPIO.output(8, GPIO.HIGH)

sleep(1)

GPIO.output(8, GPIO.LOW)

sleep(1)

## **Question-2:**

Write python code for Traffic lights for Raspberry pi

### **Solution:**

```
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, frame):
  GPIO.output(9, False)
  GPIO.output(10, False)
  GPIO.output(11, False)
  GPIO.cleanup()
  sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
while True:
  GPIO.output(9, True)
  time.sleep(3)
  GPIO.output(10, True)
  time.sleep(1)
  GPIO.output(9, False)
  GPIO.output(10, False)
```

```
GPIO.output(11, True)
time.sleep(5)

GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
```

GPIO.output(10, False)