# **ASSIGNMENT-3**

# **PYTHON CODE FOR RASPBERRY Pi**

| Assignment Date     | 06 October 2022 |
|---------------------|-----------------|
| Student Name        | Akshaya S V     |
| Student Roll Number | 201914          |
| Maximum Marks       | 2 Marks         |

# **QUESTION:**

Build a python code for blinking of LEDs and Traffic lights for Raspberry Pi.

# **SOLUTION:**

# **BLINKING OF LEDs:**

**#BLINKING OF LED** 

import RPi.GPIO as GPIO

import me

**LED\_PIN = 17** 

GPIO.setmode(GPIO.BCM)

GPIO.setup(LED\_PIN, GPIO.OUT)

while True:

GPIO.output(LED\_PIN, GPIO.HIGH)

time.sleep(1)

```
GPIO.output(LED_PIN, GPIO.LOW)
    time.sleep(1)
GPIO.cleanup()
TRAFFIC LIGHTS:
#TRAFFIC LIGHTS
import RPi.GPIO as GPIO
import me
GPIO.setmode(GPIO.BOARD)
Red=7
Yellow=11
Green=13
GPIO.setup(Red, GPIO.OUT)
GPIO.setup(Yellow,
GPIO.OUT)
GPIO.setup(Green, GPIO.OUT)
while True:
      GPIO.output(Red, True)
     time.sleep(3)
     GPIO.output(Red, False)
     GPIO.output(Yellow, True)
     time.sleep(1)
```

GPIO.output(Yellow, False)

GPIO.output(Green, True)

time.sleep(3)

GPIO.output(Green, False)

GPIO.cleanup()