## **ASSIGNMENT 3**

ASSIGNMENT DATE	6 OCTOBER 2022
STUDENT NAME	SINEKA.A
STUDENT ROLL NUMBER	720919104033
MAXIMUM MARKS	2 marks

QUESTION: WRITE A PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT FOR RASPBERRY PI.

```
import RPi.GPI0 as GPI0
import time
GPI0.setmode(GPI0.BOARD)
GPI0.setup(7,GPI0.OUT)
GPI0.setup(11,GPI0.OUT)
GPIO.setup(13,GPI0.OUT)
GPI0.setup(15,GPI0.IN,pull_up_down_=GPI0.UP)
def turn_on(pin,seconds):
  GPI0.output(pin.GPI0.HIGH)
  time.sleep(seconds)
def turn_off(pin,seconds):
  GPI0.output(pin.GPI0.LOW)
  time.sleep(seconds)
try:
  while True:
    button_state=GPI0.input(15)
    if button_state==True:
      turn_on(13,2)
      turn_off(13,.1)
      turn_on(7,4)
      turn_off(7,.1)
      turn_on(11,1)
```

turn\_off(11,.1)

else:

if button\_state==False:

```
GPI0.output(7,GPI0.LOW)

GPI0.output(11,GPI0.LOW)

GPI0.output(13,GPI0.LOW)

time.sleep(.1)

except KeywordInterrupt:

GPI0.cleanup()

print("TRAFFIC LIGHT SEQUENCE DONE")
```