Assignment -3

Python Programming

Assignment Date	26 September 2022
Student Name	Kalpana T
Student Roll Number	621119106014
Maximum Marks	2 Marks

Question:

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

Solution:

PROGRAM:

```
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")
```