ASSIGNMENT 3

Assignment Date	10.10.2022
Student Name	Dilly babu B
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Maximum Marks	2 Marks

Question:

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

Solution:

```
import RPi.GPIO as GPIO
import time
try:
  def lightTraffic(led1,led2,led3,delay):
    GPIO.output(led1,1)
    time.sleep(delay)
    GPIO.output(led1,0)
    GPIO.output(led2,1)
    time.sleep(delay)
    GPIO.output(led2,0)
    GPIO.output(led3,0)
    time.sleep(delay)
    GPIO.output(led3,0)
    GPIO.setmode(GPIO.BCM)
    button=19
  GPIO.setup(button,GPIO.IN,pull_up_down=GPIO.PUD_UP)
  ledGreen=16
  ledYellow=12
  ledRed=23
  GPIO.setup(ledGreen.GPIO.OUT)
  GPIO.setup(ledYellow.GPIO.OUT)
  GPIO.setup(ledRed.GPIO.OUT)
  While True:
    input_state=GPIO.input(button)
     if input_state==False;
       print("Button Pressed")
```

```
            lightTraffic(ledGreen,ledYellow,ledRed,1)
    else:
        GPIO.output(ledGreen,0)
        GPIO.output(ledYellow,0)
        GPIO.output(ledRed,0)
except KeyboardInterrupt:
    print"You have executed the program"
finally:
    GPIO.cleanup()
```