Assignment 3

Python Programming

Assignment Date	8 th October 2022
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Maximum Marks	2 Marks

Question:

Write a python code for blinking LED and traffic lights for raspberry pi.

Code:

```
import RPi.GPIO as GPIO
import time
try:
 def light Traffic (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, 1)
  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')
   light Traffic (ledGreen, ledYellow, ledRed, 1)
  else:
   GPIO.output(ledGreen, 0)
   GPIO.output(ledYellow, 0)
   GPIO.output(ledRed, 0)
except KeyboardInterrupt:
 print "You've exited the program"
finally:
 GPIO.cleanup()
```