## ASSIGHNMENT 3 LED blinking and Traffic lights using raspberry pi

Assignment Date	14 November 2022
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Maximum Marks	2 Marks

## Question:

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

## Code:

#Assignment 3

**#LED Blinking** 

import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

Count = 0

Status\_Check\_Freq = 1

 $Green_LED = 4$ 

GPIO.setup(Green\_LED,GPIO.OUT)

```
while True:
if Count == 0:
GPIO.setup(Green_LED,Flase)
Count = 1
else:
GPIO.output(Green_LED,True)
Count = 0
time.sleep(Status_Check_Freq)
GPIO.cleanup()
#Traffic lights
import RPi.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(led2,1)
      GPIO.output(led3,1)
      time.sleep(delay)
      GPIO.output(led3,0)
GPIO.setup(button,GPIO.IN,pull_up_down = GPIO.PUD_UP)
ledred = 13
ledblue = 14
ledgreen = 20
GPIO.setup(ledred,GPIO.OUT)
GPIO.setup(ledblue,GPIO.OUT)
GPIO.setup(ledgreen,GPIO.OUT)
while True:
      input_state = GPIO.input(button)
      if input_sate == False:
            print("Button Pressed")
            lightTraffic(ledred,ledblue,ledgreen,1)
      else:
```

```
GPIO.output(ledred,0)
```

GPIO.output(ledblue,0)

GPIO.output(ledgreen,0)

except KeyboardInterrupt:

print("You have exited the program")

finally:

GPIO.cleanup()