ASSIGNMENT-3

PYTHON PROGRAMMING

Assignment Date	1 2 october 2022
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Student Roll Number	4 1 2 3 1 9 1 0 6 0 0 7
Maximum Marks	2 Marks

Question:

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

```
Blinking Led:
import RPI.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT, initial=GPIO.LOW)
while True:
       GPIO.output(7, GPIO.HIGH)
       print("LED on")
       sleep(1)
       GPIO.output(7, GPIO.LOW)
       print("LED off")
       sleep(1)
Traffic Light:
import RPi.GPIO as GPIO
import time
try:
deflightTraffic(led1, led2, led3, delay):
```

```
GPIO.output(led1, 1)Print("GREEN") time.sleep(delay)
GPIO.output(led1, 0)
GPIO.output(led2, 1) Print("YELLOW")
time.sleep(delay)
GPIO.output(led2, 0) GPIO.output(led3, 1)
Print("RED") time.sleep(delay)
OGPIO.output(led3, 0)
GPIO.setmode(GPIO.BCM) button 19
GPIO.setup(button, GPIO.IN, pull_up_down-GPIO.PUD_UP)
ledGreen - 16
led Yellow 12
ledRed-23
GPIO.setup(ledGreen, GPIO.OUT)
GPIO.setup(led Yellow, GPIO.OUT)
GPIO.setup(ledRed, GPIO.OUT) while True:
input_state= GPIO.input(button)
if input state-False:
print('Button Pressed') light Traffic(ledGreen, led Yellow, ledRed, 1)
else:
GPIO.output(led Green, 0)
GPIO.output(ledYellow, 0) GPIO.output(ledRed, 0)
except KeyboardInterrupt:
print "You've exited the program"
finally:
GPIO.cleanup()
```