ASSIGNMENT - 3

Team Members:

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

FOR BLINKING LED:

```
import RPi.GPIO as GPIO
import time

ledPin = 22

def setup():
    GPIO.setmode(GPIO.BOARD)
    GPIO.setup(ledPin,GPIO.OUT)
```

GPIO.output(ledPin,GPIO.LOW)

```
def loop():
  while True:
    print'LED on'
    GPIO.output(ledPin,GPIO.HIGH)
    time.sleep(1.0)
    print'LED off'
    GPIO.output(ledPin,GPIO.LOW)
    time.sleep(1.0)
def endprogram():
  GPIO.output(ledPin,GPIO.LOW)
  GPIO.cleanup()
if__name__=='__main__':
  setup()
 try:
    loop()
  except KeyboardInterrupt:
    endprogram()
```

FOR TRAFFIC LIGHTS:

```
from gpiozero import Button, TrafficLights, Buzzer from time import sleep
```

```
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
while True:
   button.wait_for_press()
   buzzer.on()
   lights.green.on()
   sleep(1)
   lights.amber.on()
   sleep(1)
   lights.red.on()
   sleep(1)
   lights.off()
   buzzer.off()
```