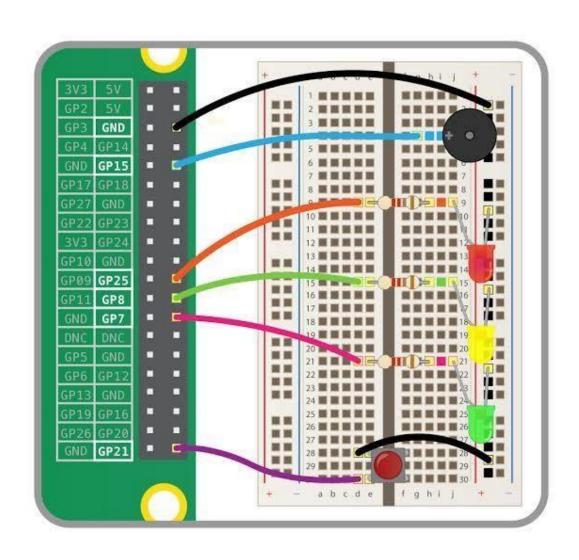
Write a Python Code For Blinked LED And Traffic Lights In Raspberry Pi Assignment-3

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Write a code for Blinked LED and Traffic Lights in Raspberry Pi:



Coding for Blinked LED:

Import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now

Import time

ledPin = 22 # pin 22

def setup():

GPIO.setmode(GPIO.BOARD) # GPIO Numbering of Pins

GPIO.setup(ledPin, GPIO.OUT) # Set ledPin as output

GPIO.output(ledPin, GPIO.LOW) # Set ledPin to LOW to turn Off the LED

Def loop():

While True:

Print 'LED on'

GPIO.output(ledPin, GPIO.HIGH) #

```
LED On
        Time.sleep(1.0) # wait 1 sec
        Print 'LED off'
        GPIO.output(ledPin, GPIO.LOW) #
LED Off
        Time.sleep(1.0) # wait 1 sec
Def endprogram():
    GPIO.output(ledPin, GPIO.LOW) # LED
Off
    GPIO.cleanup()
                             # Release
resources
If __name__ == '__main__': # Program starts
from here
    Setup()
Try:
        Loop()
   Light Except KeyboardInterrupt: # When
'Ctrl+C' is pressed, the destroy() will be executed
Endprogram()
```

Coding for Traffic lights:

From gpiozero import LED

From time import sleep

Green = LED(17)

Yellow = LED(27)

Red = LED(22)

Def switchLights (greenLight, yellowLight, redLight, sleepTime):

If greenLight:

Green.on()

Else:

Green.off() If yellowLight: Yellow.on() Else: Yellow.off() If redLight: Red.on() Else: Red.off() Sleep(sleepTime) While True: switchLights (True, False, False, 10) switchLights (False, True, False, 1) switchLights (False, False, True, 10) switchLights (False, True, True, 1)