

# Write a Python Code For Blinking LED And Traffic Lights In Raspberry Pi

## Assignment-3

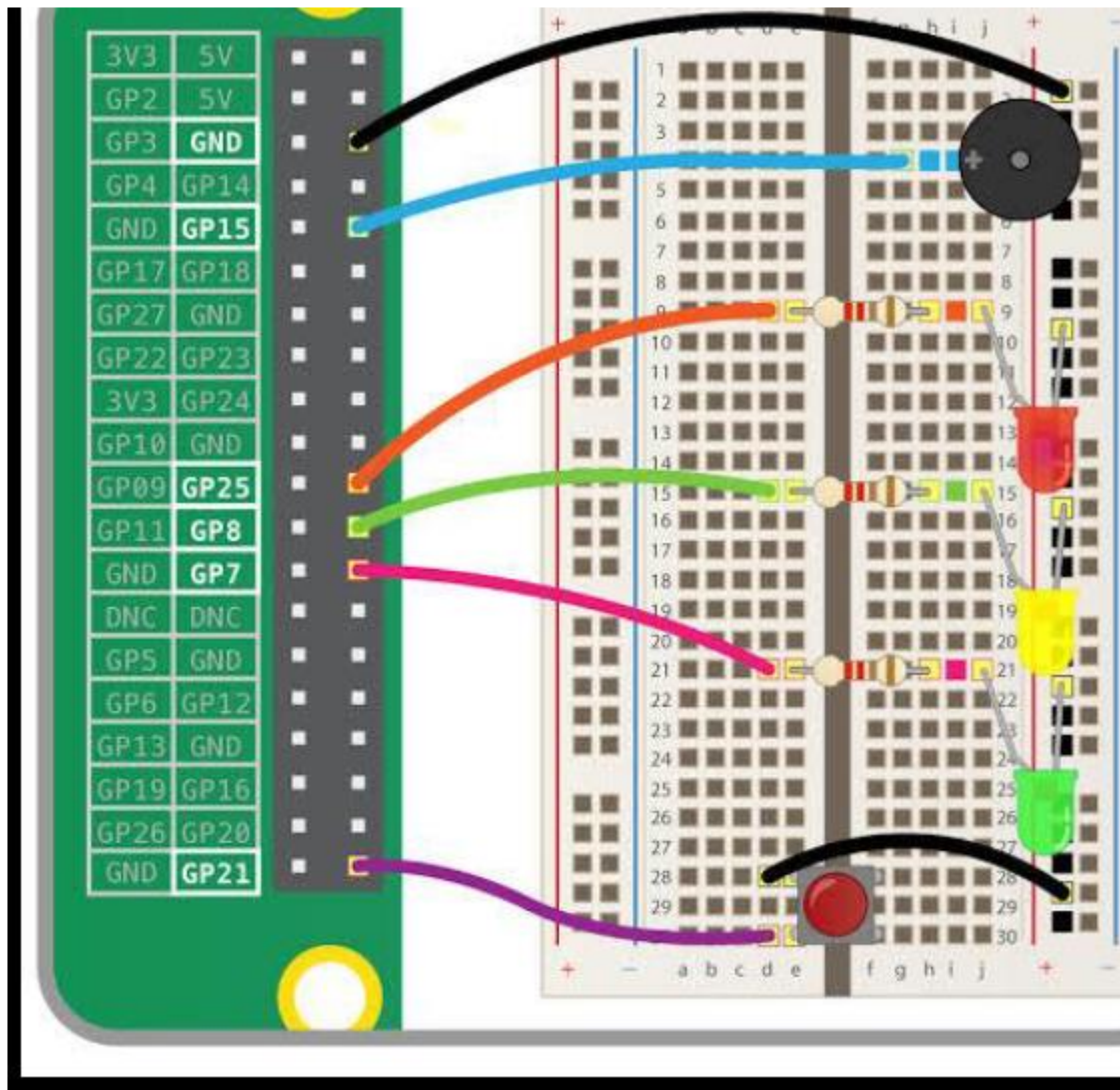
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**Write a code for Blinked LED and Traffic Lights in Raspberry Pi**

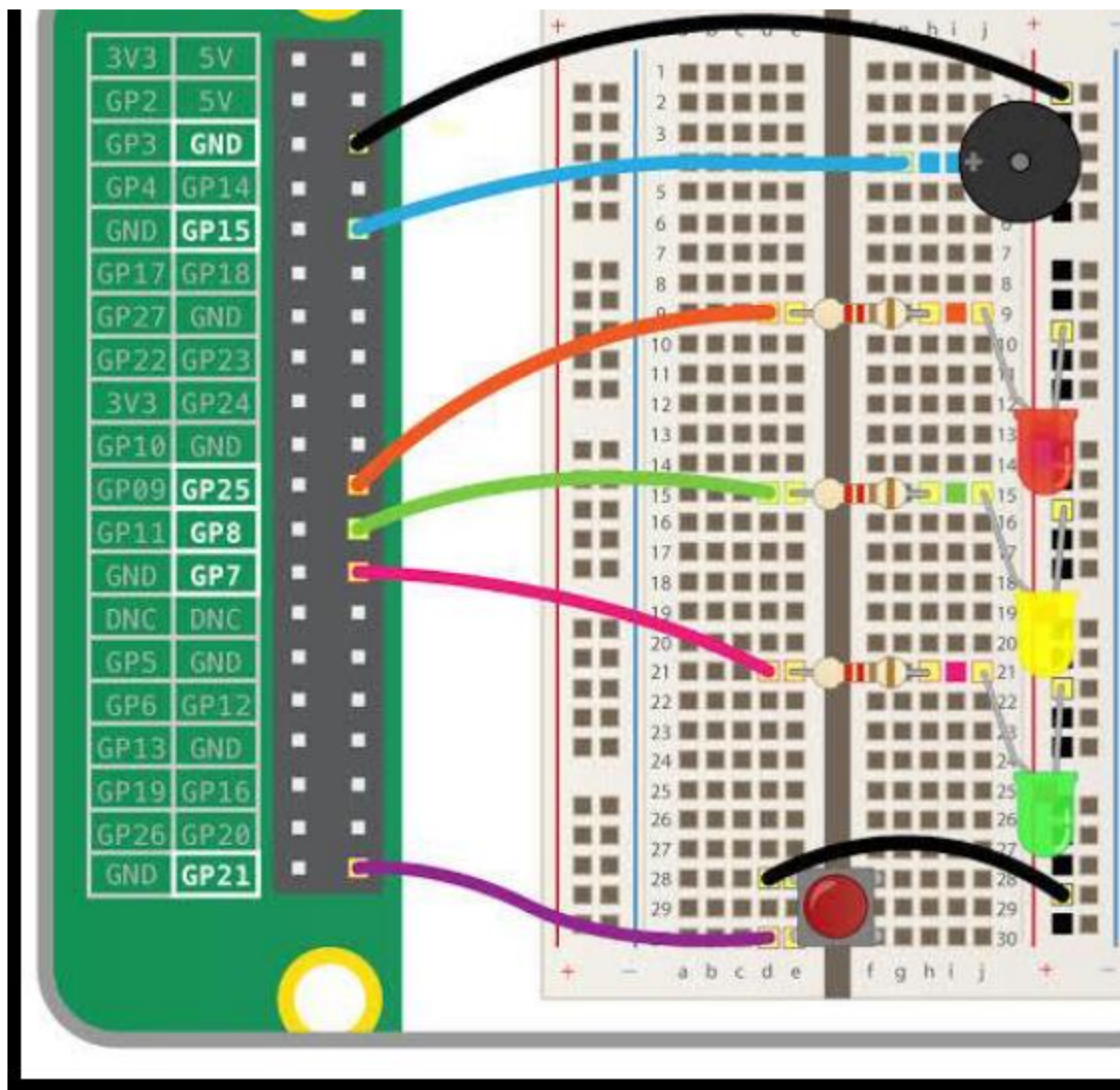








# Coding for Blinked LED

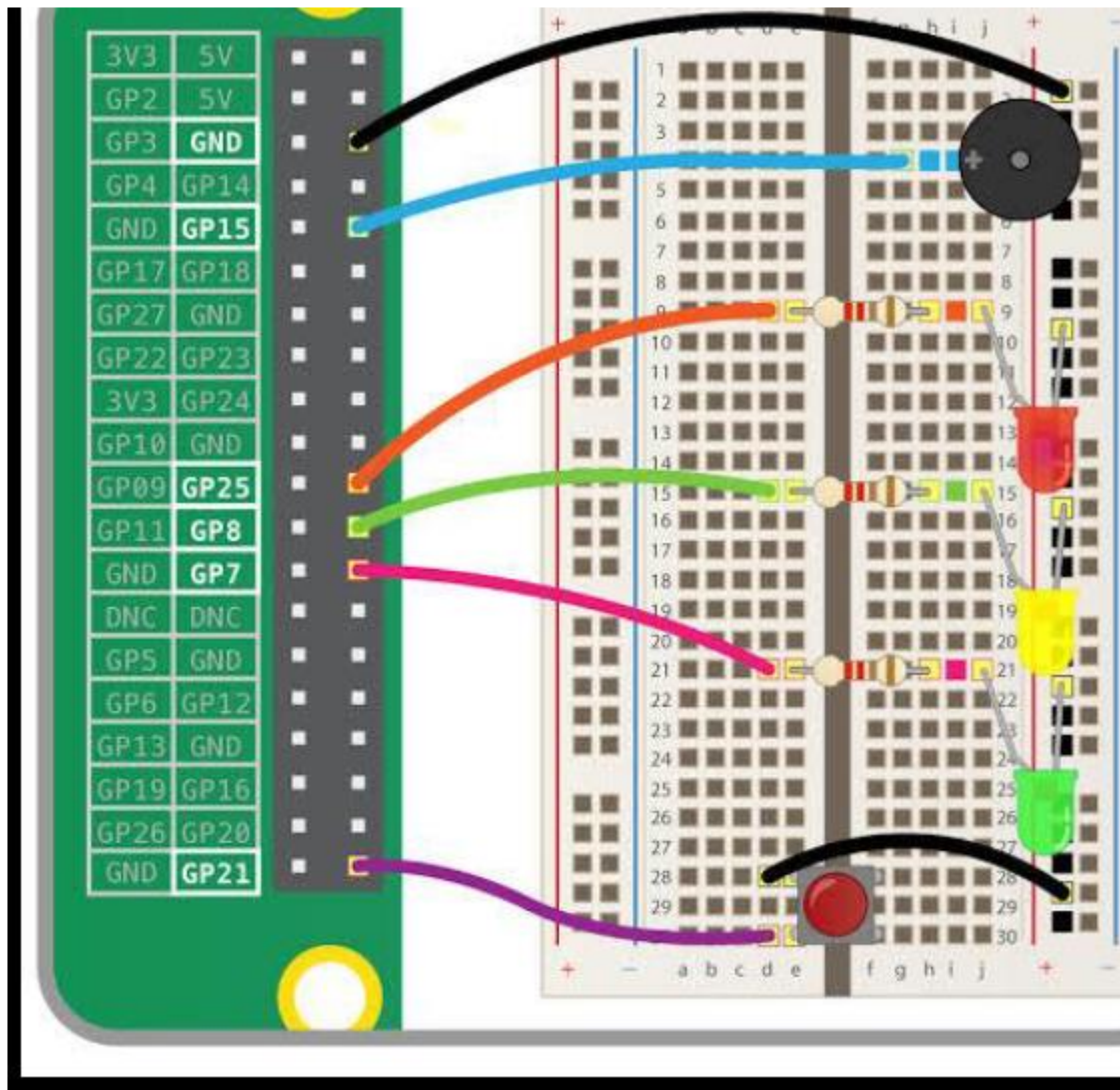








# Coding for Blinked LED





# Coding for Blinked LED

```
Import RPi.GPIO as GPIO # RPi.GPIO can be referred
as GPIO from now
Import time
ledPin = 22 # pin22
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)