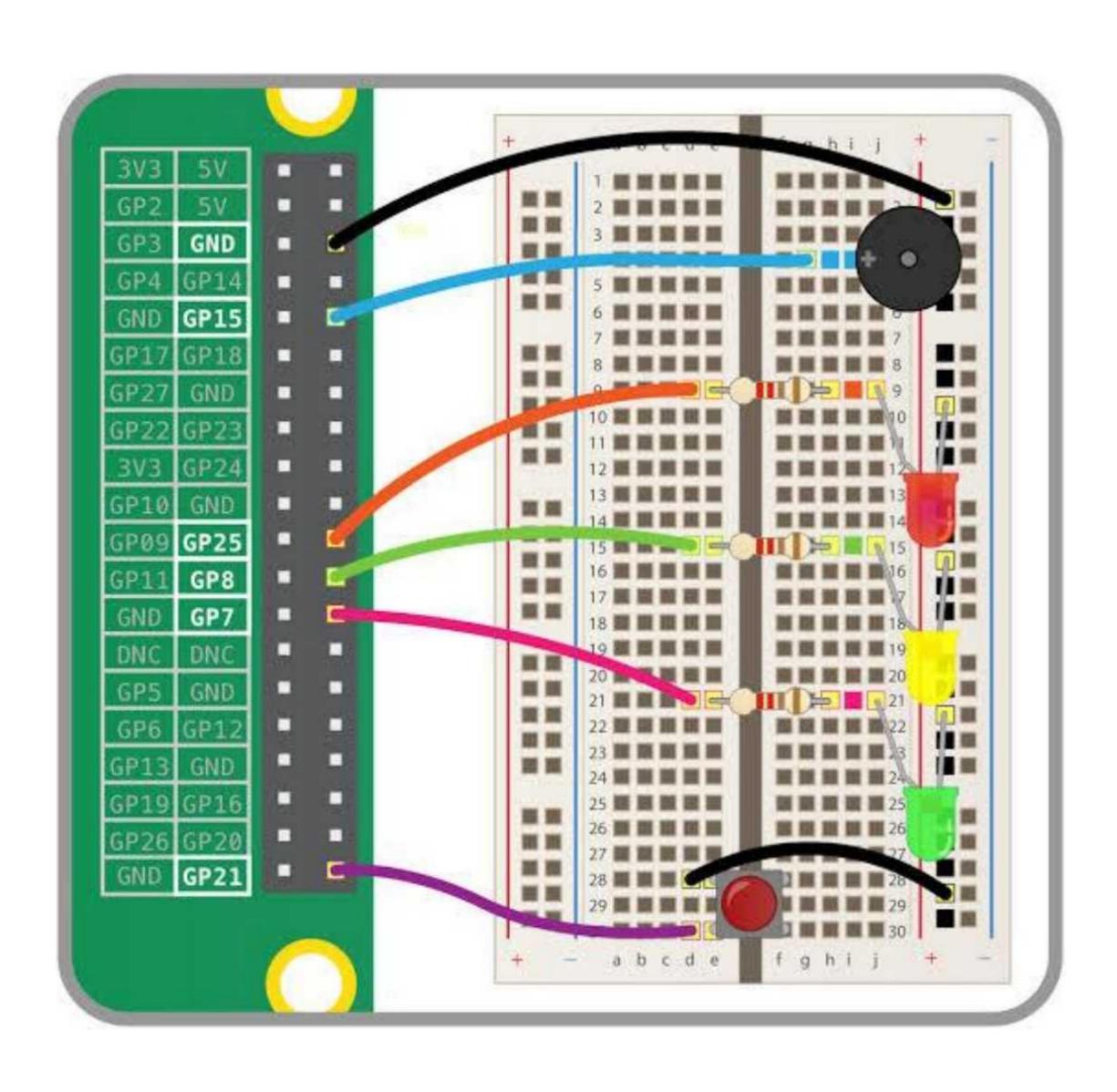# Write a Python Code For Blinked LED And Traffic Lights In Raspberry Pi

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 # 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_ from here            # Program starts

    Setup()

    Trv:

        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)

    switchFights (False, True, False, 1)

    switchFights (False, False, True, 10)

    switchLights (False, True, True, 1)
```