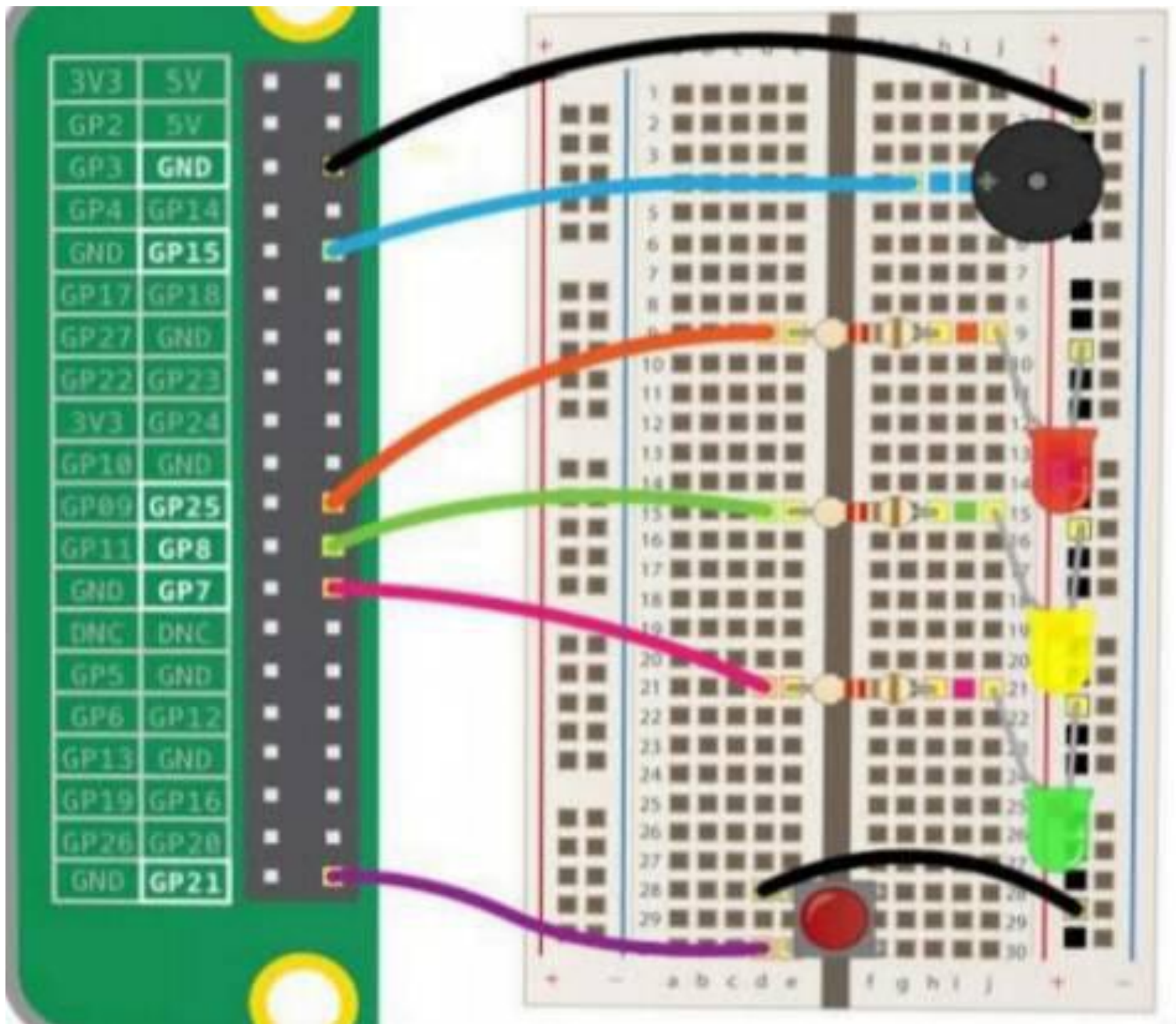# WRITE A PYTHON CODE FOR BLINKED LED AND TRAFFIC LIGHTS IN RASBERRY Pi ASSIGNMENT:3

By

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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
letpin as output
GPIO.output(ledpin,GPIO.LOW)#set
Letpin to LOW to turn off the LED
Defloop():
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 keyboard Interrupt :#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)
```