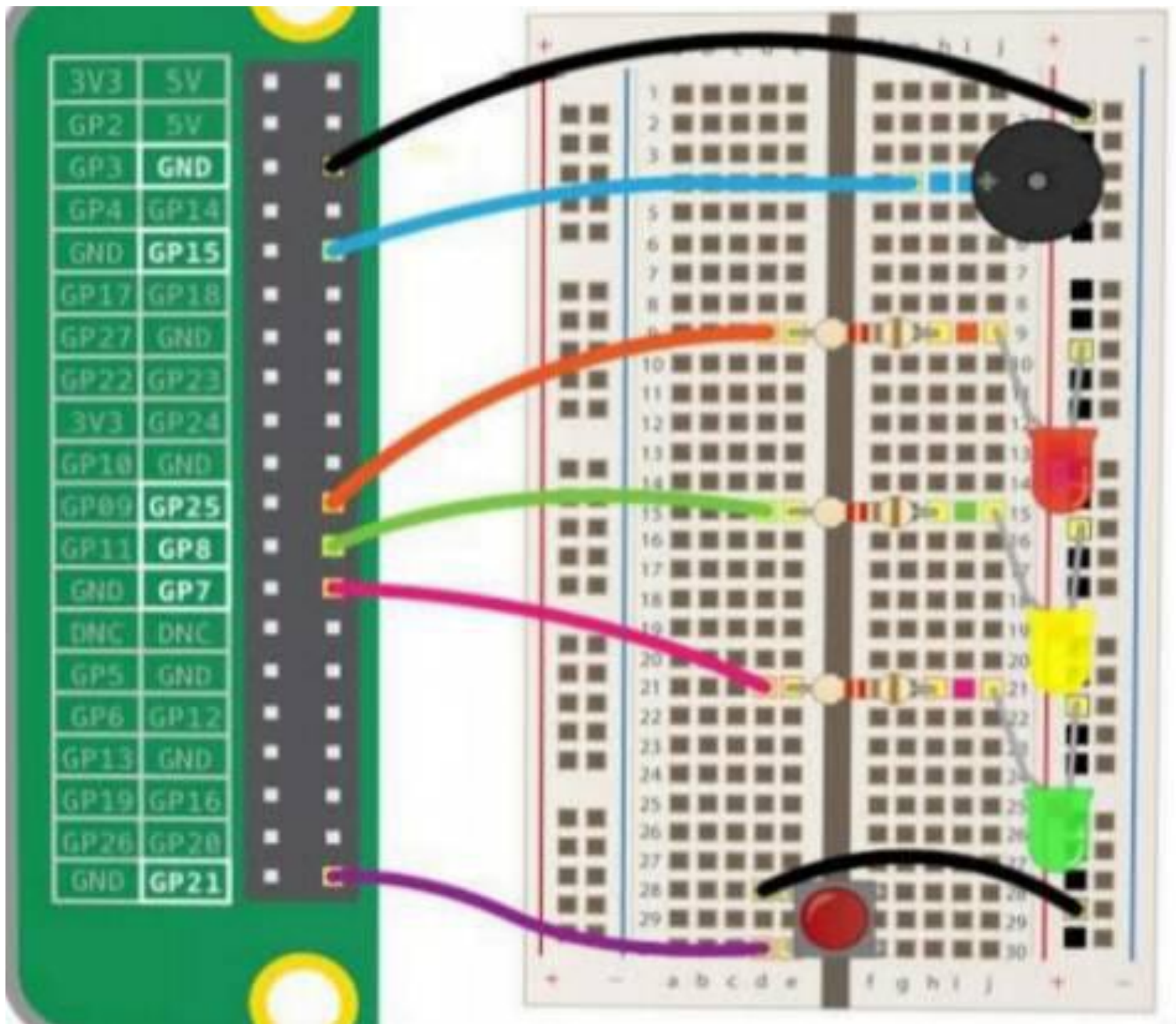


WRITE A PYTHON CODE  
FOR BLINKED LED AND  
TRAFFIC LIGHTS IN  
RASBERRY Pi  
ASSIGNMENT:3

By

M.MEENA

952319106020



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,sleepTi  
me):

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)