

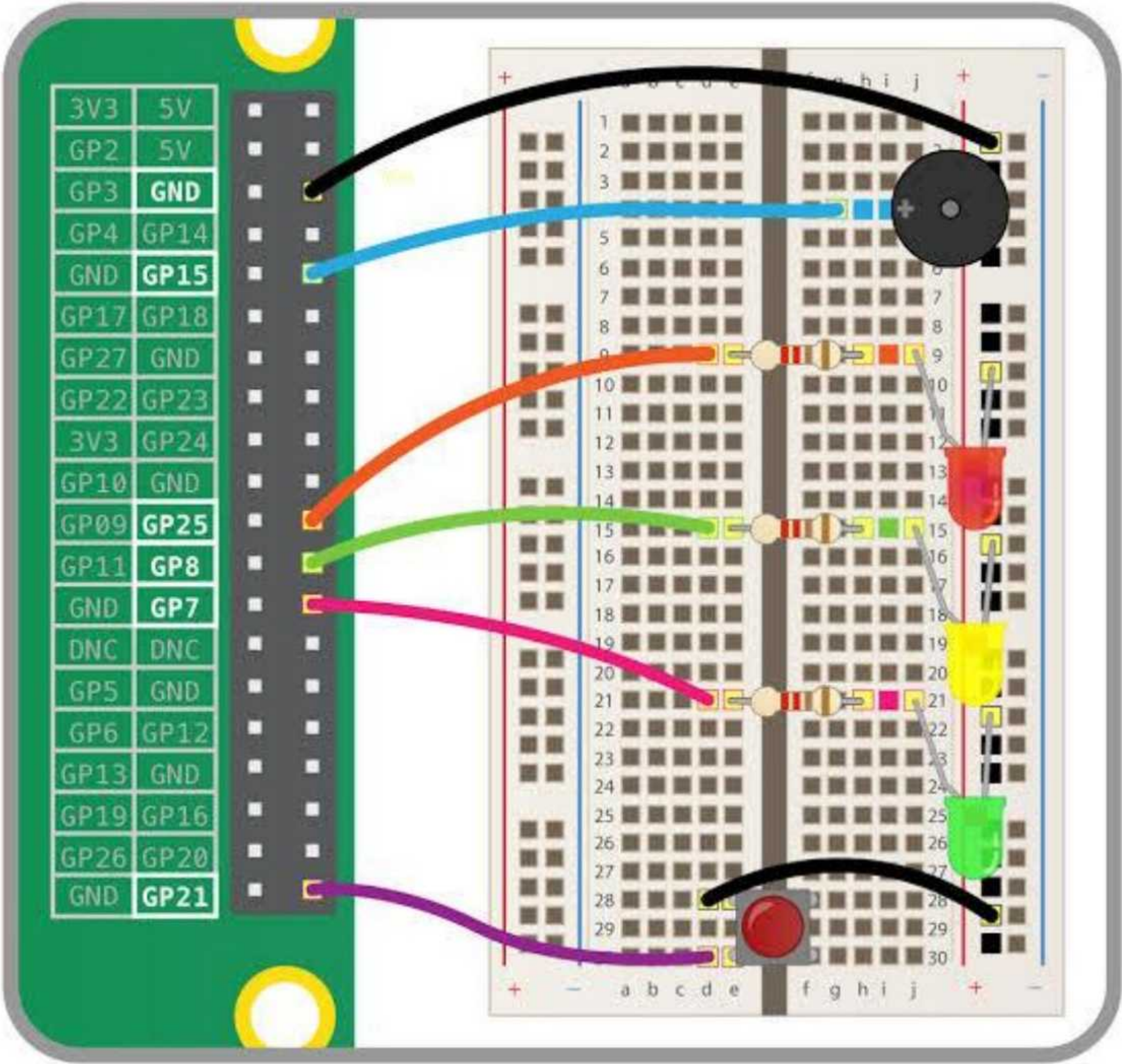
Write a Python Code For Blinked LED And Traffic Lights In Raspberry Pi

Assignment-3

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



Coding for Blinking 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)