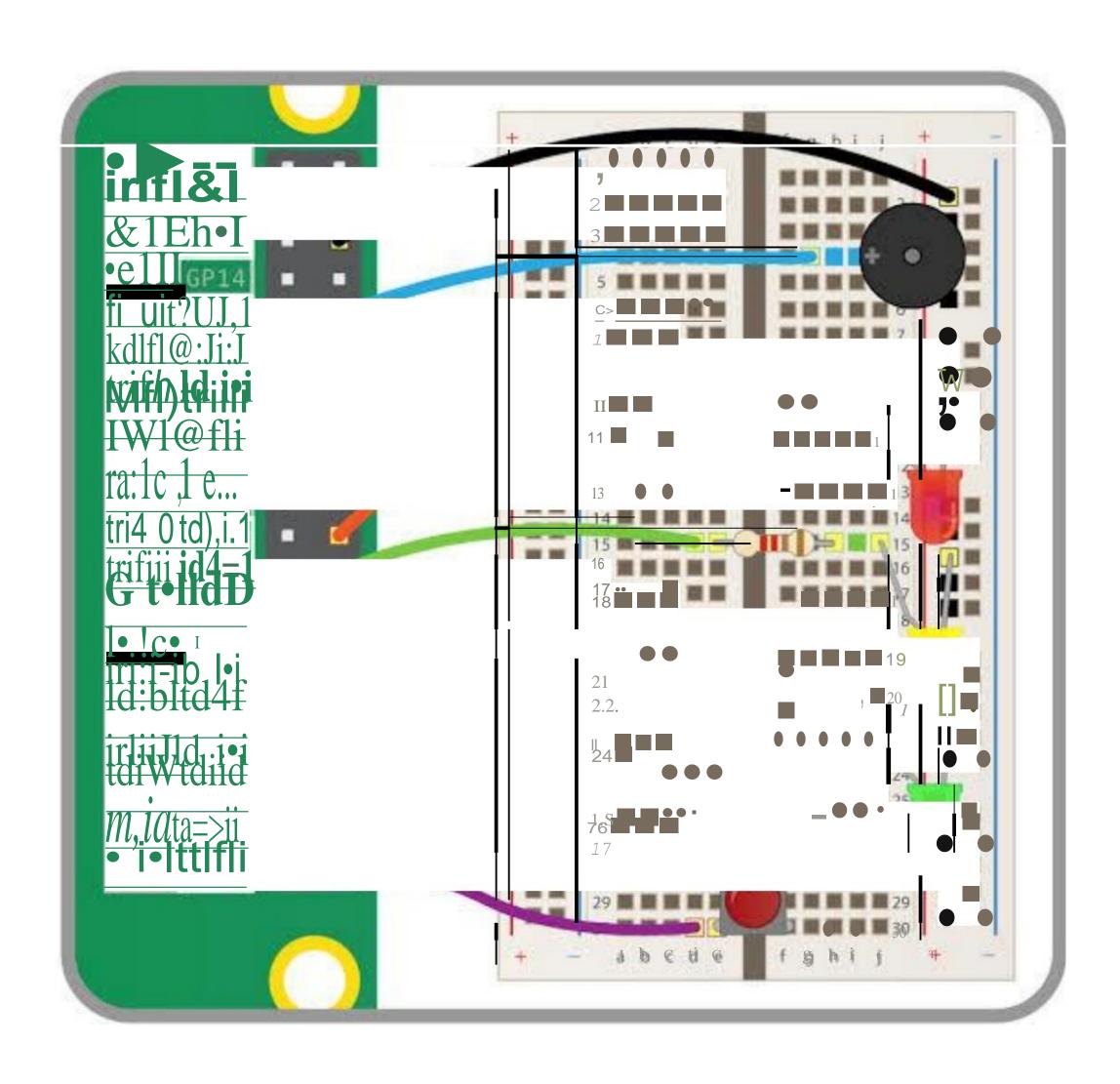
Write a Python Code For Blinked LED And Traffic Lights In Raspberry Pi

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
                                 # wait 1 sec
         Time.sleep(1.0)
Def endprogram():
    GPIO.output(ledPin, GPIO.LOW) # LED
Off
                              # Release
    GPIO.cleanup()
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

Fron1 gpiozero in1port LED

Fron1 tin1e import sleep

Green = LED(17)

Yellow = LED(27)

Red = LED(22)

Def switchLights (greenLight, yellowLight, redLight, sleepTin1e):

If greenLight: Green.on()
Else:
Green.off()
If yellowLight:
Yellow.on()
Else:
Yellow.off()
If redLight:

Red.on()

Else:

Red.off()

Sleep(sleepTillle)

While True:

switchLights (True, False, False, 10)

switchLights (False, True, False, 1)

switchLights (False, False, True, 10)

switchLights (False, True, True, 1)