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

Assignment -3

By,

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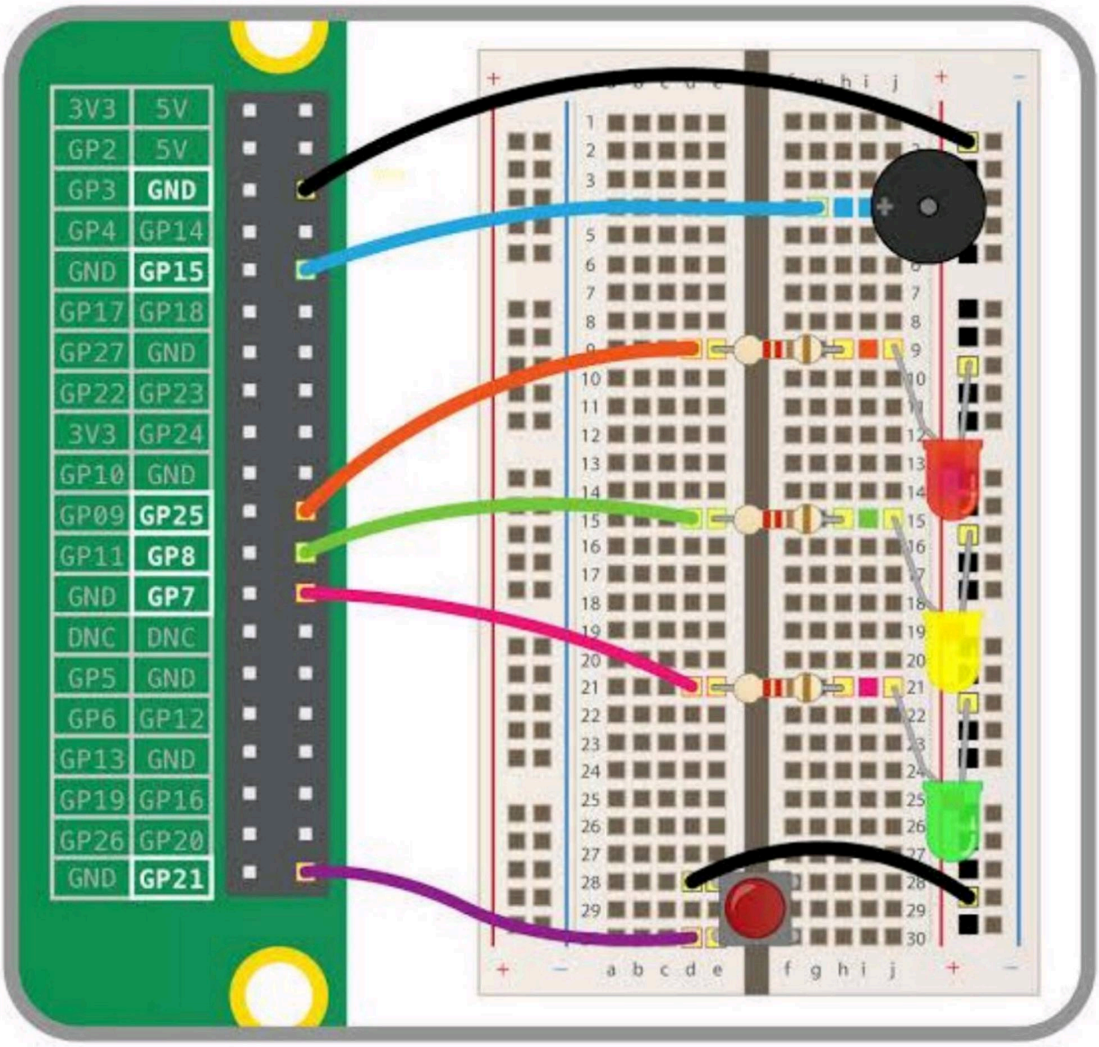

Coding for Blinked LED

```
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 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__’:        # 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

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)
```