Write a Python Code for Blinked LED and Traffic Lights in Rasberry Pi

Assignment 3

By,

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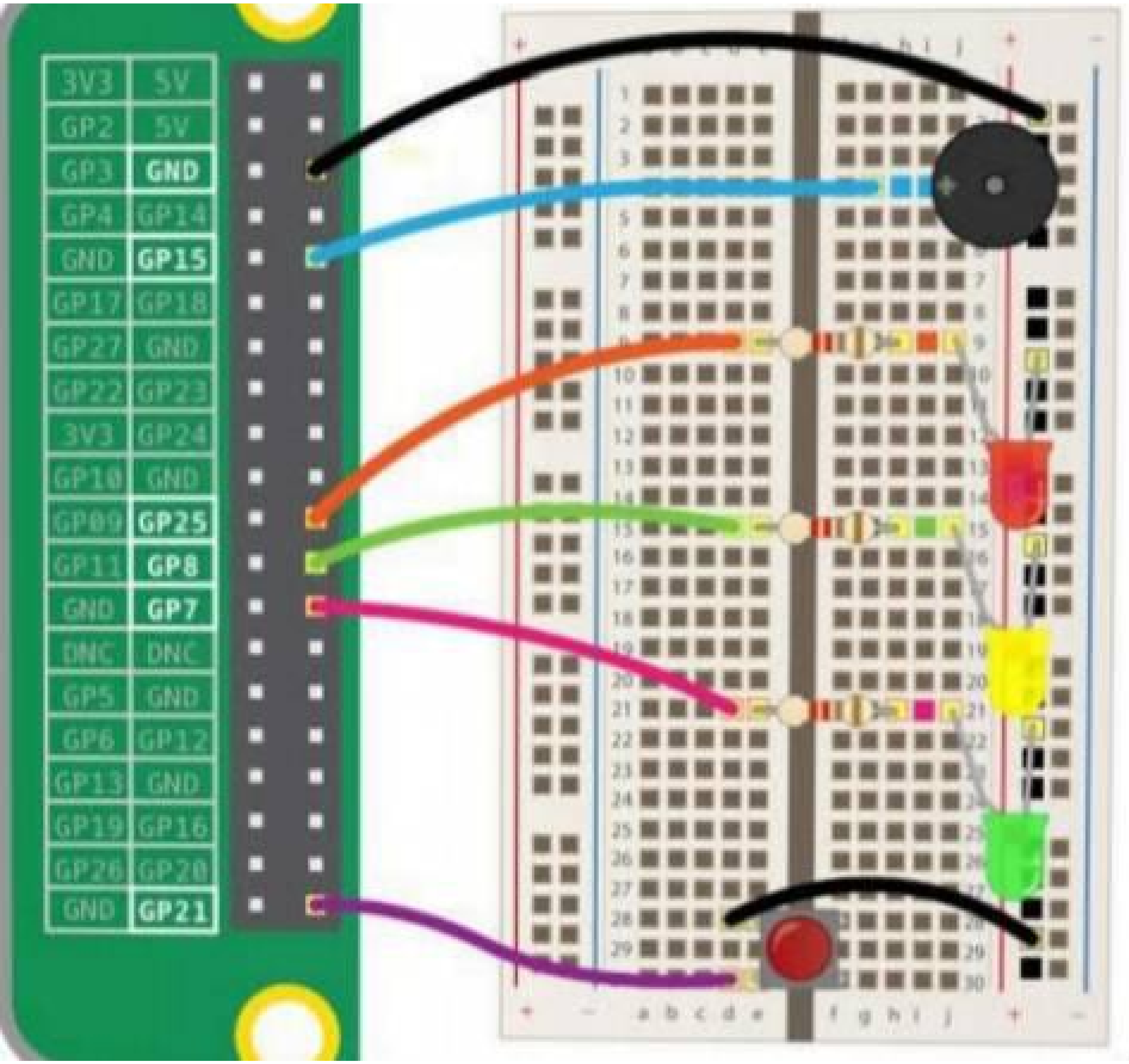

Coding for Blinked LED

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 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)