Name: Kaustubh Rane Internet of Things

Roll No.: CS23037

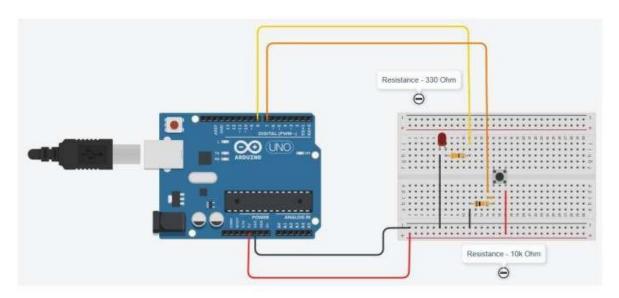
### **Practical No. 3**

Aim: GPIO: Light the LED with Python with/without a button using either Uno/Raspberry Pi.

### (1) Logical (Arduino):

#### **Code:**

## **Output:**



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#### (2) Physical (Raspberry Pi):

#### **Setup:**

#### **Code:**

import RPi.GPIO as GPIO from time import sleep

GPIO.setmode(GPIO.BCM)

LedPin = 22

GPIO.setup(LedPin, GPIO.OUT)

try:

while True:

GPIO.output(LedPin, True) print("LED ON")

sleep(2)

GPIO.output(LedPin, False)

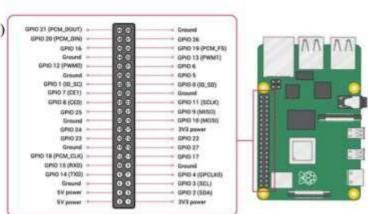
print("LED OFF")

sleep(1)

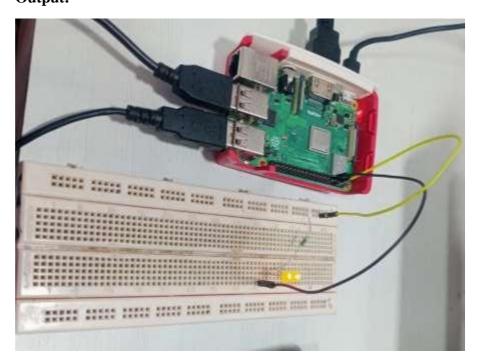
finally:

GPIO.output(LedPin, False)

GPIO.cleanup()

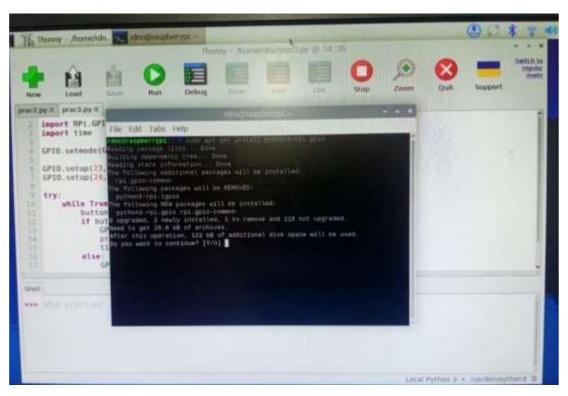


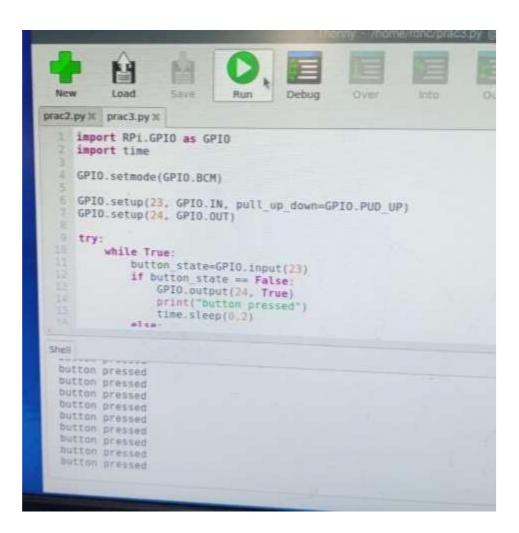
# **Output:**



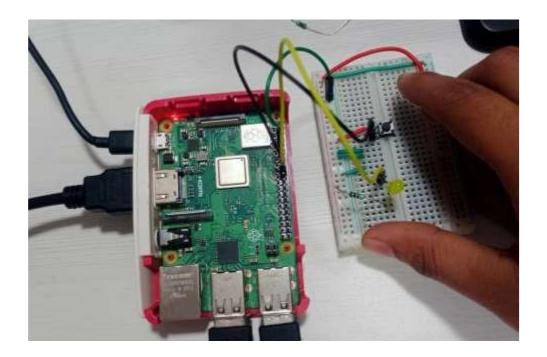
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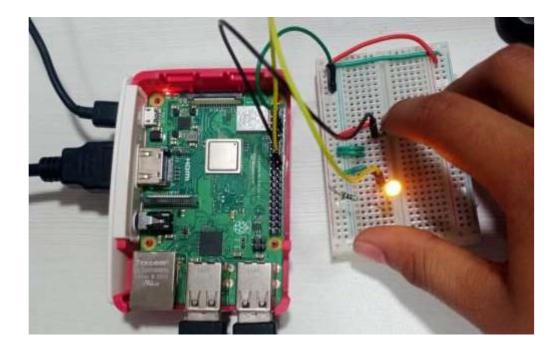
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Conclusion: Hence, we have successfully completed GPIO: Light the LED with Python with/without a button using either Uno/Raspberry Pi.