Understanding the connectivity of Raspberry-Pi/Beagle Board circuit with IR sensor. Write an application to detect obstacle and notify user using LEDs

from gpiozero import LED

from signal import pause

import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

LED\_PIN = 21

IR\_PIN = 26

indicator = LED(LED\_PIN)

GPIO.setup(IR\_PIN, GPIO.IN)

count = 1

while True:

got\_something = GPIO.input(IR\_PIN)

if got\_something:

indicator.on()

print("{:>3} Got something".format(count))

else:

indicator.off()

print("{:>3} Nothing detected".format(count))

count += 1

time.sleep(0.2)

Executing the code

1. Open terminal (On Pi itself or login through SSH login)

2. Navigate to the directory where the above code is saved

3. Type $ python3 ir\_obstacle.py and press <enter>

On terminal it will start printing the status based on the condition