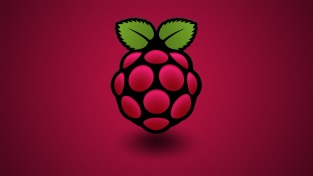
Raspberry Pi – interactive music instrument



Welcome to the Raspberry Pi booth!

In this demo, you will perform a few simple tasks to make the device responsive to your hand gestures and play music.

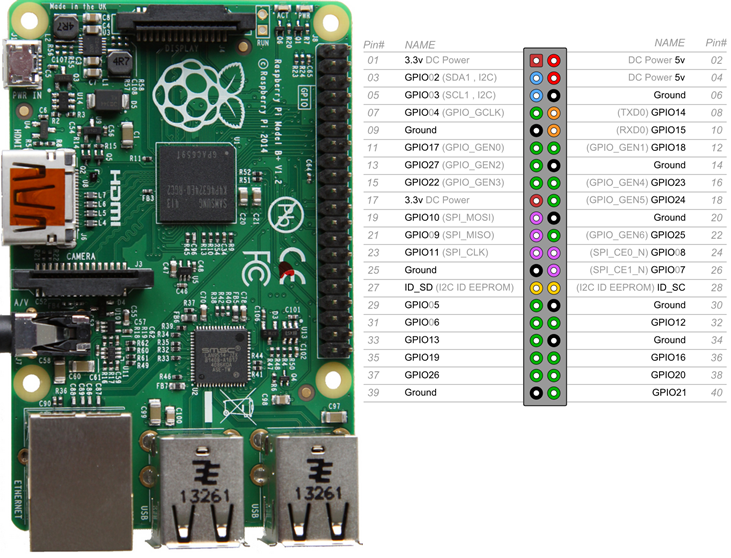
1. Open the file “exercise.py” for edit using IDLE (right click the file).
2. Set a value for GPIO\_ECHO\_BEEP and GPIO\_TRIG\_BEEP (one of the GPIO pins of the Raspberry pi) – **step 1 in the code.**
3. Connect the sensor to the Raspberry Pi with the 4 connections wire:

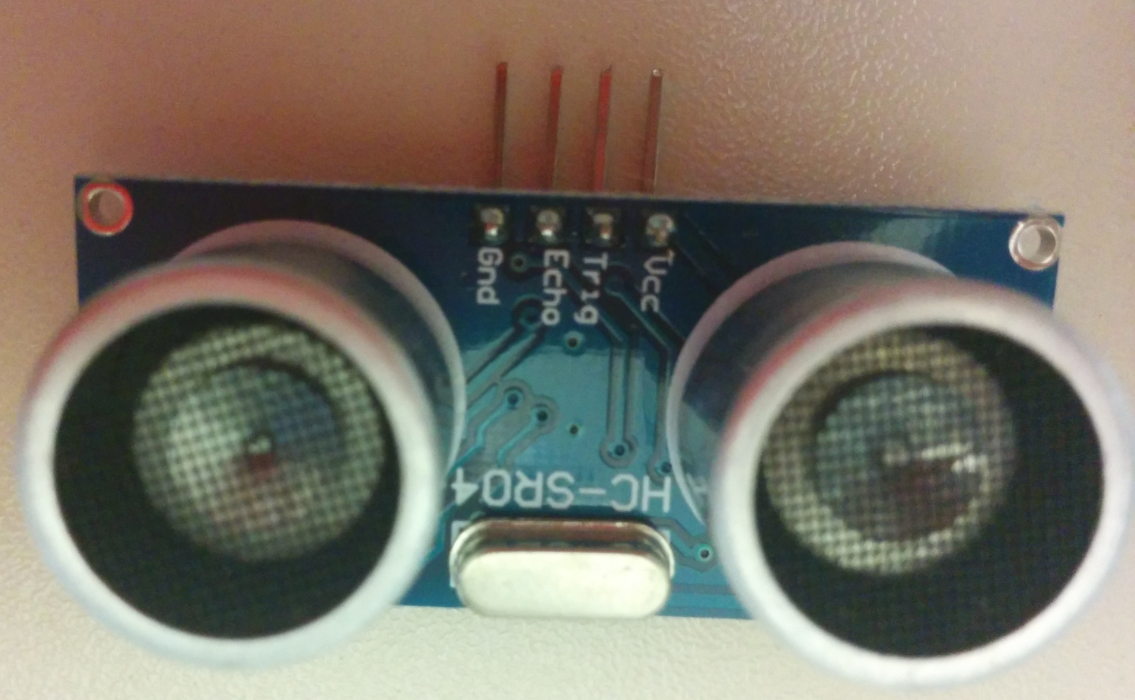
Gnd -> Ground

Echo -> GPIO\_xx (from step 2)

Trig -> GPIO\_xx (from step 2)

Vcc -> 5v





1. Set the distance by calling the function “distance(GPIO\_ECHO\_BEEP, GPIO\_TRIG\_BEEP)” and assign it to the parameter “measured\_distance” - **(step 2 in the code)**
2. Set the desire distance threshold that should start the playing **(Step 3 in the code)**
3. Ctrl+s to save the file.
4. Run the code:
   1. Double click on “LXTerminal”.
   2. Write: “cdrp” and press enter.
   3. Write “sudo ./exercise.py” and press enter.
   4. Password: “admin”.
5. Once you hear the background music, put your hand above the distance sensor to start playing along.

