IMPLEMENTATION OF ULTRA SONIC SENSOR THROUGH ROS ON RASPBERRY PI3

• Run the code after make it as Node

$ cd ~/catkin\_ws/src

$ catkin\_create\_pkg <name> rospy roslib std\_msgs

$ cd ~/catkin\_ws && catkin\_make

$ cd ~/catkin\_ws/src/<name>

$ mkdir scripts

$ cd scripts

$ vi ROS\_sonar\_sensor.py (put the source code in this text editor and save it)

$ chmod +x ROS\_sonar\_sensor.py (for making file executable)

$ roscore $ rosrun <name> ROS\_sonar\_sensor.py

• Run the code by ROS launch

<node pkg="<name>" type="ROS\_sonar\_sensor.py" name="ROS\_sonar\_sensor" />

Physical Connection: -

a) Vcc to any 5V (pin number 2)

b) GND to any Ground (pin number 9)

c) TRIG to GPIO 27 (pin number 13)

d) Echo to GPIO 17 (pin number 11)

