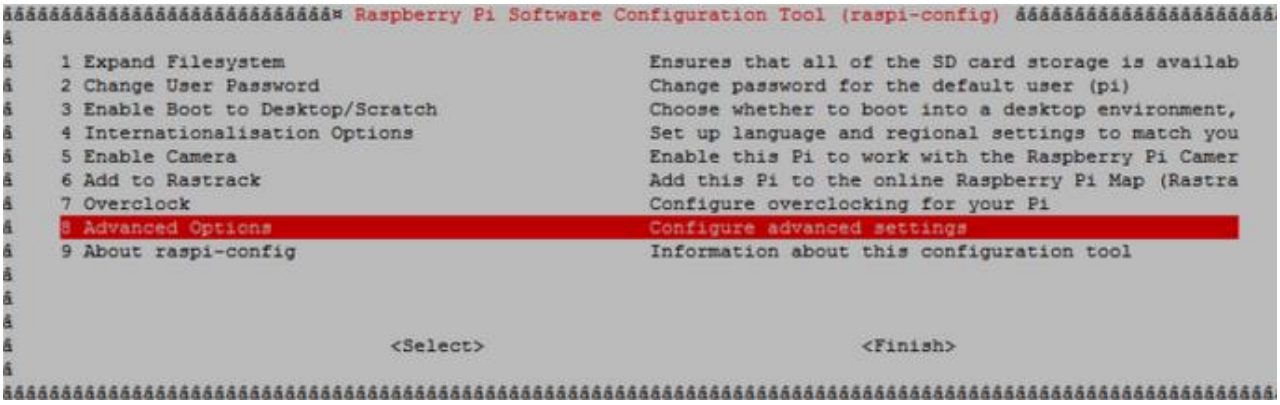
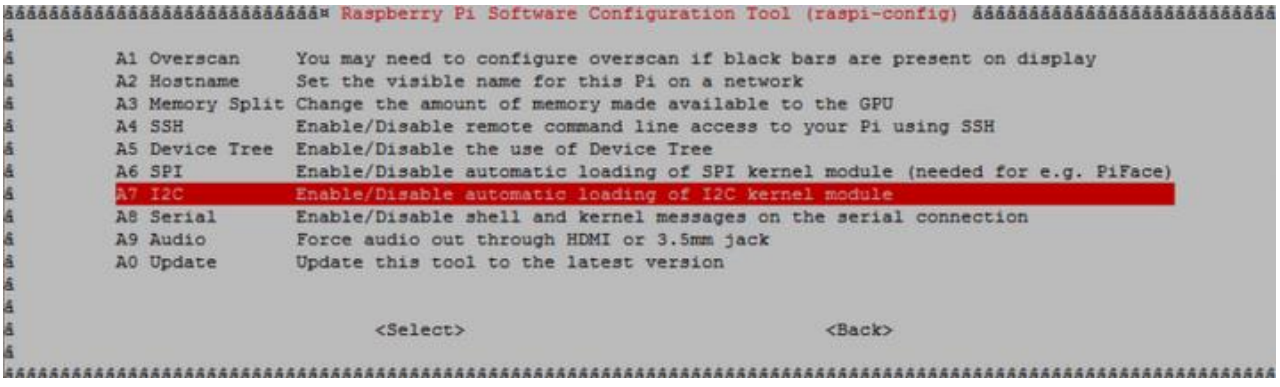
# I2C Tutorial

## Introduction

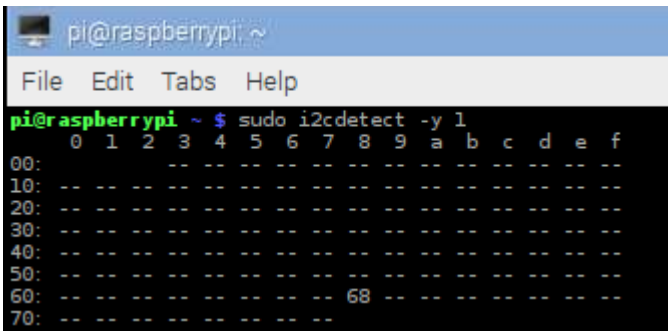
This tutorial will help you to connect devices that use the I2C interface. An example of such a device is the MCU-6050 sensor which is used in both our Accelerometer and Thermometer classes.

1.) Install I2C Tools, this can be done with “sudo apt-get install i2c-tools” in the terminal.
2.) Enable I2C. Type “sudo raspi-config”, go to “Advanced Options”, then enable I2C. You may need to restart the Pi after doing this.




3.) Once you have restarted, you can test that the sensor has been detected by entering: “sudo i2cdetect -y 1”. Or “sudo i2cdetect -y 0” if you have an older Pi (256 RAM).




4.) The device should show up as been connected at a specific memory address. If this is different from the default 0x68 then be sure to use the alternate constructor in Acceleromter or Thermometer.