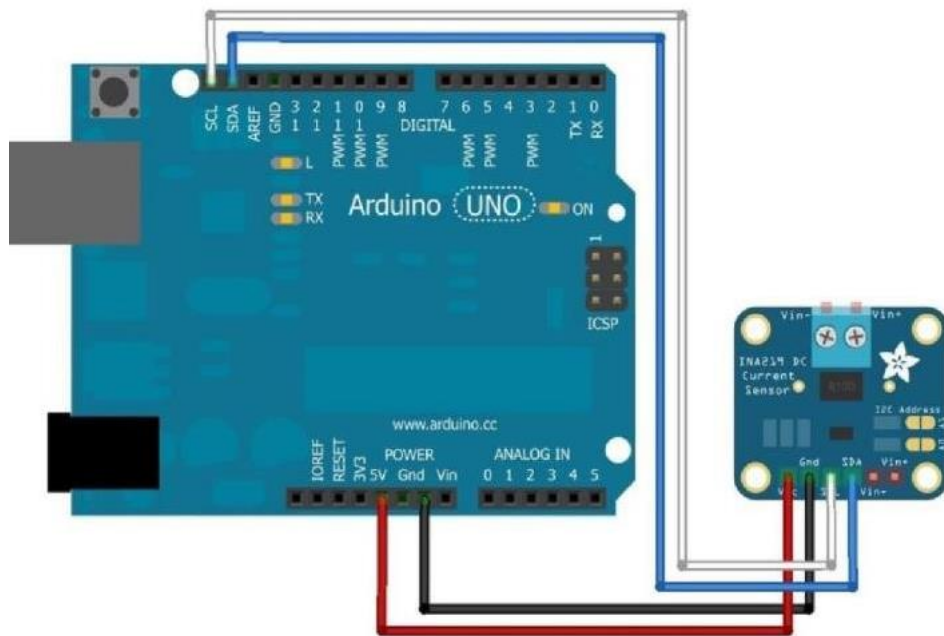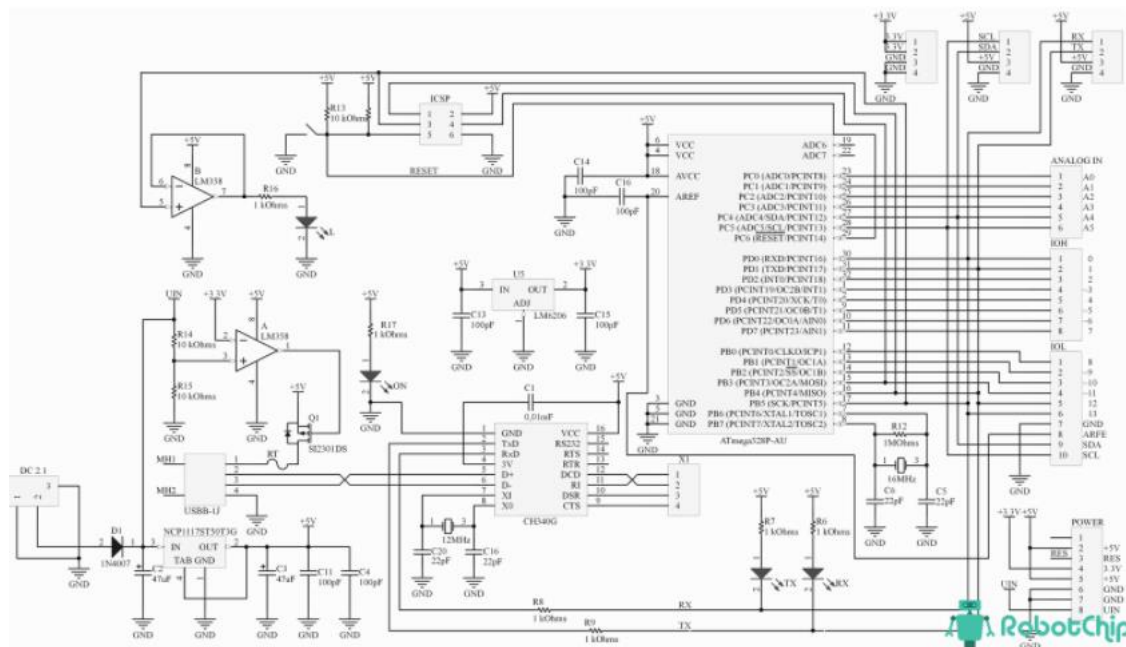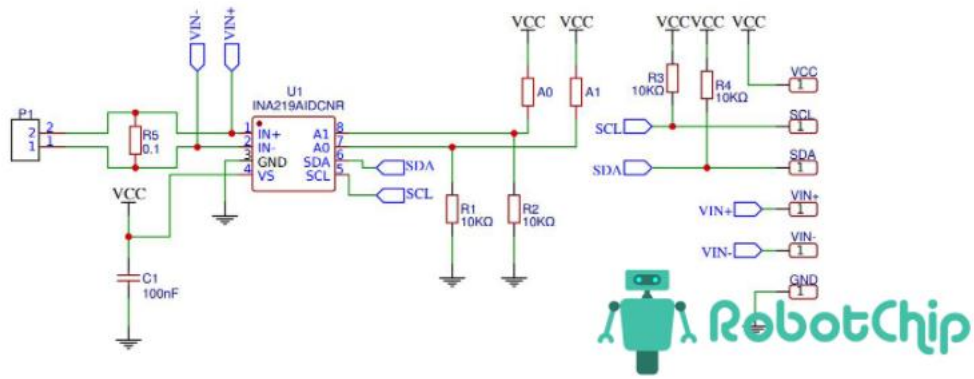**Devise high accuracy voltmeter**

Devise a schematic for device that can measure input voltage in range from 0 V to 30 V with automatic range switching and with max 0.02 % accuracy. Once voltage is measured, the result should be transferred to PC through COM port and saved on HDD (you can use any convenient file format for data storage). Write program for PC for voltmeter connection and data reading. Any programming language is applicable for that task. Also please describe the device operation.

INTERCONNECTIONS BETWEEN THE ARDUINO AND THE INA219 CURRENT SENSOR

Arduino Uno R3

INA219