Setting up Mosquitto on Linux

- > \$sudo -i
- > \$snap install arduino
- > \$sudo usermod -a -G dialout babor-mirza
- > \$sudo apt install mosquitto
- > \$sudo apt install mosquitto-clients
- ➤ \$sudo apt install mariadb-server
- ➤ \$sudo mysql_secure_installation set root password and access privileges.
- > \$sudo apt install wiringpi
- ➤ \$sudo apt install i2c-tools /*i2cdetect*/
- ➤ \$sudo apt install net-tools /* netstat */
- > \$sudo apt update
- > \$sudo apt upgrade
- ➤ \$sudo service mosquitto status
- ➤ \$sudo netstat -an | grep 1883 /* mosquitto listening on 1883*/
- > \$sudo apt install gcc
- > \$sudo apt install g++
- ➤ \$sudo apt install python
- Go to Arduino IDE> Preferences > add board https://dl.espressif.com/dl/package_esp32_index.json, http://arduino.esp8266.com/stable/package_esp8266com_index.json
- > Open the Boards Manager. Go to Tools > Board > Boards Manager...
- > Search NodeMCU ESP32 board and click to install packages.
- ➤ Plug the ESP32 board to your computer.
- Select your Board in Tools > Board menu ()
- > sudo usermod -a -G dialout babor-mirza

- change permission for connected USB NodeMCU \$Sudo chmod 777 /dev/ttyUSB0
- > Temperature Sensor
- ➤ In Arduino Sketch > Include Library > Manage Libraries. Onwire Library by Paul
- ➤ Install an other library search for "**Dallas**" and install Dallas Temperature library by Miles Burton.
- <OneWire.h> <DallasTemperature.h>