Principles
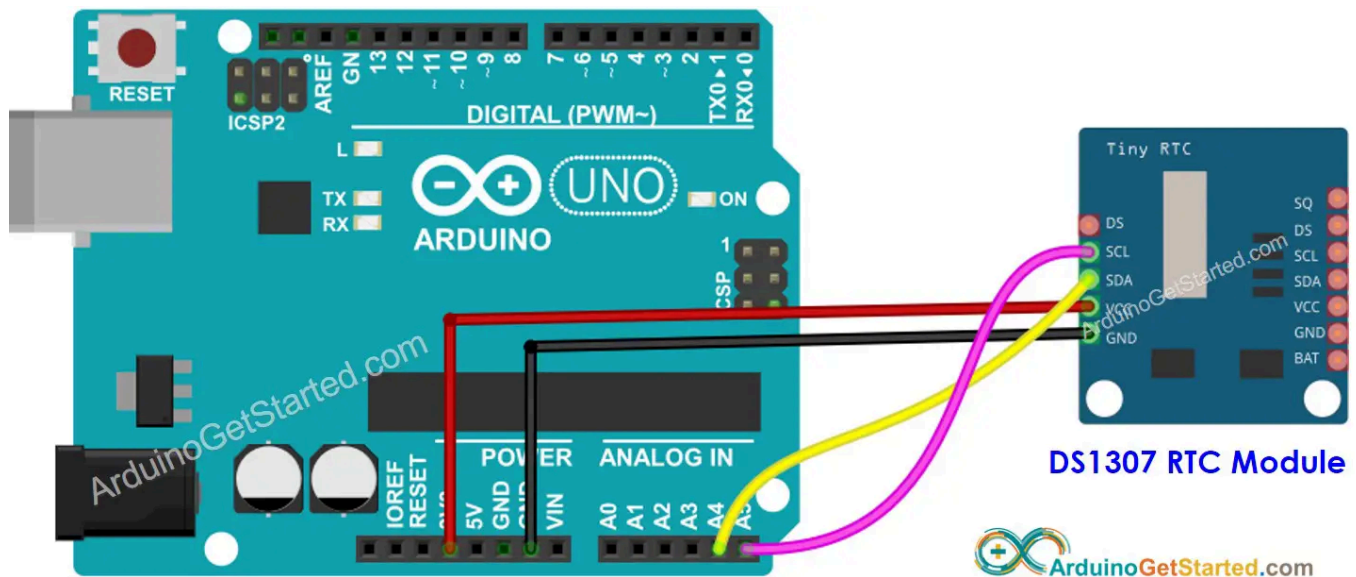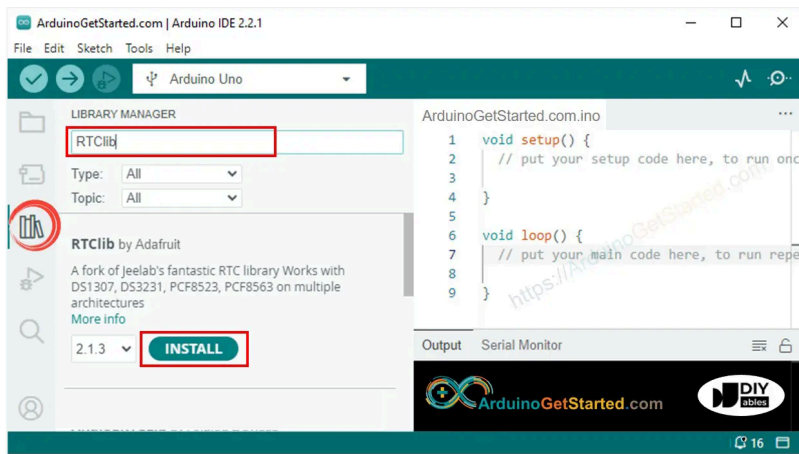
Arduino itself has some time-related functions such as millis(), micros(). However, they can not provide the date and time (seconds, minutes, hours, day, date, month, and year). To get date and time, we needs to use a Real-Time Clock (RTC) module DS1370. DS3231 Module has higher precision than DS1370.

Hardware

DS1307 RTC Module

DS1307 RTC Module	Arduino Uno, Nano	Arduino Mega
Vin	3.3V	3.3V
GND	**GND**	**GND**
SDA	A4	20
SCL	A5	21

Software
Library

Links

- https://arduinogetstarted.com/tutorials/arduino-ds1307-rtc-module
- https://fritzing.org for drawing Arduino board diagram.