

```
#include <Wire.h>

#include <RTCLib.h>

#include <LiquidCrystal_I2C.h>


// Create RTC object
RTC_DS1307 rtc;


// Initialize the LCD
LiquidCrystal_I2C lcd(0x27, 16, 2);


void setup() {
    // Start the I2C communication
    Wire.begin();
    lcd.begin(16,2);
    lcd.backlight();


    // Check if RTC is connected properly
    if (!rtc.begin()) {
        lcd.print("Couldn't find RTC");
        while (1);
    }


    // Check if RTC lost power
    if (!rtc.isrunning()) {
        lcd.print("RTC is NOT running");
    } else {
        lcd.print("RTC is running");
    }
}
```

```
void loop() {  
    DateTime now = rtc.now();  
  
    // Display the current time on the LCD  
    lcd.setCursor(0, 0);  
    lcd.print("Time: ");  
    lcd.print(now.hour());  
    lcd.print(':');  
    lcd.print(now.minute());  
    lcd.print(':');  
    lcd.print(now.second());  
  
    lcd.setCursor(0, 1);  
    lcd.print("Date: ");  
    lcd.print(now.month());  
    lcd.print('/');  
    lcd.print(now.day());  
    lcd.print('/');  
    lcd.print(now.year());  
  
    delay(1000);  
}
```