**Project Instructions**

1. **Project Target**
2. Understand the principles of temperature measurement, LCD Display, RS232 communication, buzz driver,
3. Get familiar with C language design and debug of MCU, I/O, A/D, serial communication, timer and other advanced modules.
4. Master CSS development environment, MSP 430 Platform
5. **Develop Environment**
6. MSP430 G2 pocket platform
7. CCS (version 5.5 or 6), super-end, serial debugging assistant, Bluetooth port app
8. **Requirements**

Utilize MSP430 G2 pocket platform, whose launchpad need a crystal with frequency of 32.768Hz soldered, and try to achieve the following goals:

1. LCD remains 3 seconds to display “**TJ2017**” first, and another 3 seconds to display your **student ID**, after that, the LCD will display the **current temperature**.
2. Communicate with your PC by RS232, PC will send out a handshake signal of your student ID. If MSP430 receives the correct signal, the buzzer then rings for once and sends back the temperature to PC in the format of “Name (student ID) measured temperature as xx.x Celsius degree”, else if the handshake signal is wrong, the buzzer should ring for three times and send back message in the format of “Name (Student ID) has ID as xx”
3. Consider the question: write a program to achieve transformation between Celsius and Fahrenheit temperature by physical or touch button control