

Self-Study Laboratory Exercise 2

Laboratory Demo: 204:237 (Bentley), Miri: Consult with your lecturer



Equipment Required:

- 1 × MSP-EXP430FR5739 Experimenter's Board
- 1 × PC with latest version of Code Composer Studio (CCS) installed



1. Exercise

Study the header file “msp430fr5739.h” and the pin mapping diagram “MSP430FR5739 Pin Map.jpeg”. Write code to perform the following tasks

- Initialise on-board LEDS (4) i.e. argument is (LED_PIN_NO).
- Initialise on-board PUSH BUTTONS (2) i.e. argument is (PUSH_BUTTON_PIN_NO).
- Read PUSH BUTTONS (2).
- Write to LEDS (4).
- Initialise the on-board ACCRELEREOMETER.

Hint: Define these pins  as input and assign HIGH to  as input and

- Read from ACCRELEREOMETER.
- Initialise the NTC (negative temperature coefficient thermistor sensor).

Hint: Define these pins  as input and assign HIGH to  as input and

- Read NTC (temperature sensor).
- Demo during one of your laboratory session.