

Lab 1: Introduction to the QwikFlash Board

1. What is the purpose of the function **void Initialize_PIC()**? How does this function relate specifically to the QwikFlash board?
 - a. This function goes in and applies the necessary settings for the program's I/O by setting specific values to the pins in ports A, B, C, and D. It then proceeds to set the LEDs state to off and calls the **Initialize_LCD()** function.
 - b. This function is necessary to the QwikFlash board because it sets up the necessary values to ensure the PIC sends the proper outputs to the proper destinations on the QwikFlash board.
2. Explain the process of printing characters to the LCD module in the function **void Print_To_LCD(const char* tempPtr)**.
 - a. When this function is called, it prepares a while loop to run the length of the **char*** that was sent in as a parameter. Then, it prepares **portE** is adjusted to contain the upper nibble of the current character, it then proceeds to send the 4 bits. It then repeats the same process with the lower 4 bits of the current char. Then, there's a 10 ms delay. The cursor is then pushed to the next space on the LCD and the whole process is repeated until all characters have been printed.