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//*****
// Hex to BCD Conversion
// Convert a Hex number to a BCD for display on an LCD or monitor
//
//-----
void HEXtoBCD(int hex_value){
    int value;
    adc_char[0] = '0';
    if (hex_value > 1000){
        hex_value = hex_value - 1000;
        adc_char[0] = '1';
    }
    value = 0;
    while (hex_value > 99){
        hex_value = hex_value - 100;
        value = value + 1;
        adc_char[1] = 0x30 + value;
    }
    value = 0;
    while (hex_value > 9){
        hex_value = hex_value - 10;
        value = value + 1;
        adc_char[2] = 0x30 + value;
    }
    adc_char[3] = 0x30 + hex_value;
}
//*****
//-----

```