

ASSIGNMENT 7

1. Write to interface Potentiometer using ADC and print the raw values onto the console. Also implement the following:
ADC raw value < 1000 then both LEDs are OFF
1000 < ADC raw value < 2000 then only Yellow LED is ON
2000 < ADC raw value < 3000 then only Red LED is ON
ADC raw value > 3000 then both LEDs are ON
2. Write a code to receive data over UART using DMA and loop back the same data using normal UART transmit in circular DMA mode.
3. Write a code to receive data over UART using DMA and loop back the same data using normal UART transmit in normal DMA mode and make sure data is continuously loop-backed.

Note: Make configurations in .ioc file such that the LEDs should be in OFF state by default

Guidelines for submission of Assignments for microcontroller related programming

- .ioc file, main.c file should be submitted with the file name as Q1.ioc, Q1main.c