**Lab: ADC Driver**

**Aim – to gain experience in writing a simple driver.**

For the PIC 18F45K20, I wrote a program that displays the 10-bit ADC output in two formats.

* Binary – the high byte (actually, 2 bits) is displayed on LED0 and LED1, followed by the low byte on LED0 to LED7.
* Octal – the 10-bit value is converted to octal, then displayed on the LEDs. For example, if the octal value is 24678, LED 2 is flashed, followed by LED4, followed by LED6, followed by LED7.

Pressing the button toggles between binary mode and octal mode.

Watch the video to see how the program performs.

**Your job:**

The implementation file ADC.c is missing. You need to add ADC.c to the project and write its code. Study my code and ADC.h to find out what functions must exist in ADC.c and what they should do.