

## ASSIGNMENT 6

1. Create a program with the following using interrupts:  
If button 1 is pressed, print "Button 1 Pressed" & both LED's toggle continuously with 1 second delay.  
If button 2 is pressed, print "Button 2 Pressed" & both LED's toggle continuously with 0.5 second delay.
2. Write the above program in polling method.
3. Write a program to read the user button 1 using polling technique and ON yellow LED on key press; ON Red LED if key is not pressed.
4. Write the above program with interrupts.
5. Implement a program in polling method where: (PWM)  
each press of a pushbutton 1 increases LED brightness.  
each press of a pushbutton 2 decreases LED brightness.
6. Write the above program with interrupts.

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