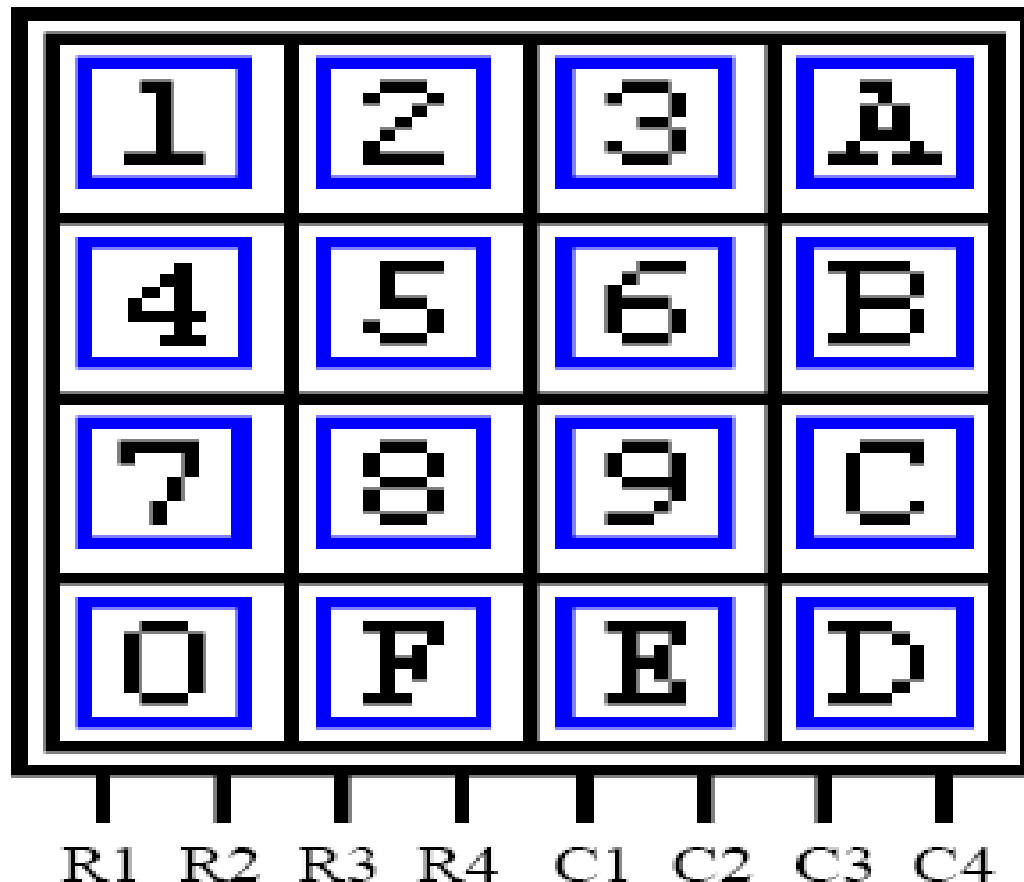Write an MPASM program for the PIC16F887 Microcontroller that interfaces to a 4x4 matrix keypad.

Use a polling scheme to detect which key is pressed.
Use 8 LED's to display the key pressed.

APPROVED

4x4 MATRIX KEYPAD PIN CONFIGURATION

1	2	3	A
4	5	6	B
7	8	9	C
0	F	E	D

R1 R2 R3 R4 C1 C2 C3 C4

1 - R1+C1	2 - R2+C1	3 - R3+C1	A - R4+C1
4 - R1+C2	5 - R2+C2	6 - R3+C2	B - R4+C2
7 - R1+C3	8 - R2+C3	9 - R3+C3	C - R4+C3
0 - R1+C4	F - R2+C4	E - R3+C4	D - R4+C4