

IMPLEMENTATION STRATEGY

WHAT

- (0) Test hardware by itself
- (1) Test the IRQSC set up to make sure INTERRUPTS are generated, serviced, and enabled again
- (2) Test the Keypad decoding
 - Decode one row
 - Decode any one row
 - Decode all rows
- (3) ISR & Keypad together
 - Make sure debouncing works properly

HOW

As described before. **DONE** ✓

Create an artificial interrupt signal @ IRQ pin and simple piece of code with it

RUN ISR as a subroutine, e.g.!!

TROUBLESHOOTING DISCUSSION

PROBLEM

Only the first key you press is detected, nothing afterwards

REASON(S)

SOLUTION(S)

Pressing a key fills the entire display

TROUBLESHOOTING DISCUSSION

PROBLEM

Numbers 4, 5, 6, 7 do not work

REASON(S)

SOLUTION(S)

If column does not work

When a key is pressed, the display goes blank, when it's released, it works again

TROUBLESHOOTING DISCUSSION

PROBLEM

REASON(S)

SOLUTION(S)

Not one key is detected

The erase key works as the CLR
key

TROUBLESHOOTING DISCUSSION

PROBLEM

When you press 7, an 8 shows up

REASON(S)

SOLUTION(S)

Keys are not being decoded in a repeatable manner. Sometimes they work, sometimes they don't

