MAIN PROGRAM

Port\_setup()

intrpt\_setup()

Infinite loop

Wait for a key to be pressed

NO

NO

Is the keyPressed Value = 0x23 (#)?

Is setrun\_flag = 1?

YES

YES

NO

Is the keyPressed Value ≠ null AND ≠ 0x23 (#)

YES

YES

NO

Is the keyPressed Value = 0x23 (#)?

Shift the new keyPressedValue into the right most 7 segment display

Setrun\_flag = 1

Alarm\_flg = 0

Set setrun\_flag = 0

(RUN mode)