

## Program 12

Program to display using seven segment display scrolling

<pre>START: MVI A,CW         OUT CWR:         MVI C,04H RPTCD: MVI A,FFH         CALL DISP         LXI D,FFFFH         CALL DELY         DCR C         JNZ RPTCD         LXI D,FFFFH         CALL DELY         LXI H, F100H         MVI C, 04H RPDIS:  MOV A,M         CALL DISP         INX H         PUSH H         PUSH B         LXI D,FFFFH         CALL DELY         POP B         POP H         DCR C         JNZ RPDIS         LXI D,FFFFH         CALL DELY         JMP START DISP:  MVI E,08H MOV         B,A RPTR:  MOV A,B         OUT PB         RRC         MOV B,A</pre>	<pre>STEP 1: Initialize all ports STEP 2: Make all rows high STEP 3: Sense the Key board STEP 4: Is any Key Pressed , if Yes call         delay STEP 5: If No, Check the Key Pressed STEP6: Initialize counter Step 7: Set Row High. Step 8:Is any Key Pressed Check first         column, If No increment the         counter by 8 and enable next Row. Step 9: If Yes Display the counter.</pre>
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MVI A,00H OUT PC CMA OUT PC DCR E INZ RPTR  RETURN: RET	
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**NOTE:**

- Store the program from F000H.
- Store the string of data from F100h.
- Connect the interfacing unit to the PPI of the kit.
- Execute the program.
- Observe the result in the display interface unit.

**String for SSIT:**

A	b	c	d	e	f	g	h	
0	1	0	0	1	0	0	1	49H(S)
0	1	0	0	1	0	0	1	49H(S)
1	0	0	1	1	1	1	1	9FH(i)
1	1	1	0	0	0	0	1	E1H(t)