

Program 8

Program to implement HEX up counter

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| <pre>START: MVI A,00 RPTD: PUSH PSW CALL UPDDT CALL DELAY POP PSW ADI 01H JMP RPTD HLT DELAY: LXI B,F424H WAIT: DCX B MOV A,C ORA B JNZ WAIT RET</pre> | <p>STEP 1: Initiate the minimum number in accumulator</p> <p>STEP 2: Display in the DATA field</p> <p>STEP 3: Add 01 to the present value displayed</p> <p>STEP 4: Repeat the steps 2-4.</p> <p>STEP 5: Provide proper display between Each display.</p> <p>STEP 6: Terminating Point.</p> |
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RESULT:

- It counts from 00 to FF with the given delay in DATA field.

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|---|---|
| 0 | 0 |
| 0 | 1 |

| | |
|---|---|
| F | E |
| F | F |