

# Tutorial - 1 MIT

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U20 CS110

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Sol-1

```
MVI D, 9BH
MVI E, A7H
ADD D
ADD E
JNC DISP
MVI A, 01H
DISP: OUT 00H
HLT
```

Sol-2

```
MVI A, 99H
MVI B, 57H
ADD B
ORA A
```

Content of A = 0

Content of B = 57H

Content of S flag = 0

Content of Z flag = 0

Content of carry flag = 0

Sol-3

	A	B	C	D	S	Z	Cy
MVI A, 00H	00	00	00	00	00	00	00
MVI B, F8H	00	F8	00	00	00	00	00
MOV C, A	00	F8	00	00	00	00	00
MOV D, B	00	F8	00	F8	00	00	00
HLT	00	F8	00	F8	00	00	00

these are contents after the instructions are executed

Tutorial-2MITSol-4

```

LXI H, 004FH
LXI D, 0070H
MVI B, 010H
LOOP: INX H
      MOV A, M
      STAX D
      INX D
      DCR B
      JNZ loop
      HLT

```

Sol-5

```

LXI H, 005AH
LXI D, 0080H
MVI B, 06H
LOOP: MOV A, M
      STAX D
      INX D
      DCX H
      DCR B
      JNZ LOOP
      HLT

```