

## Addition

A1100

MOV AX, 1212

MOV BX, 1212

ADD AX, BX

MOV SI, 1200

MOV [SI], AX

↓ double enter

G1100 ——— execute

↓ Reset

M1200

Edit

D1100

↓ space

A (address)

↓ enter

Edited part

↓ double enter

G1100

## LED Switch (From input) (J6)

MOV AL, 90

MOV DX, FF36

OUT DX, AL

1106 → MOV DX, FF30

IN AL, DX

MOV DX, FF32

OUT DX, AL

JMP 1106

↓ double enter

G1100

↓

For even

```
MOV AL, 90
MOV DX, FF36
OUT DX, AL
MOV AL, AA
MOV DX, FF32
OUT DX, AL
// JMP 1106
```

For odd memory:

```
MOV AL, 90
MOV DX, FF36
OUT DX, AL
1106 — MOV SI, 1200
MOV AL, [SI]
MOV DX, FF32
OUT DX, AL
// JMP 1106
```

↓ double enter

M1200  
↓ enter

55  
↓ double enter  
G1100

\* This is a program for LED Blinking

```

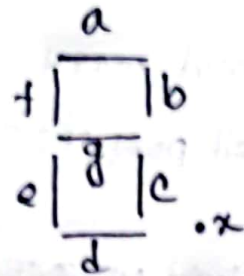
1101: MOV AL, 90 ; command word "90"
1102: MOV DX, FF36 ; Controll port "FF36"
1105: OUT DX, AL
1106: MOV CL, 08 ; 08 સો light on કરાવે જશે ।
1108: MOV SI, 1200 ; Memory થી લેવું કે input તિપ્તુ નહીં
110B: MOV AL, [SI]
110D: MOV DX, FF32
1110: OUT DX, AL
1111: MOV DX, FFFF
1114: DEC DX
1115: JNZ 1114
1117: INC SI
1118: DEC CL
111A: JNZ 110B
111C: JMP 1106

```

Memory:

1200 = 01
1201 = 02
1202 = 04
1203 = 08
1204 = 10
1205 = 20
1206 = 40
1207 = 80

## \* Normal digit Print In 7 segment display



Value:

7	g	f	e	d	c	b	a
1	1	1	1	1	0	0	1

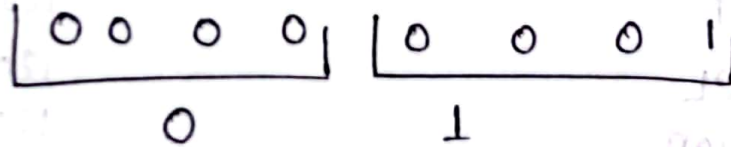
F
G

} For 1 print

Position:

d6	d5	d4	d3	d2	d1
0	0	0	0	0	1

} position 1



```

MOV AL, 80
MOV DX, FF36
OUT DX, AL
MOV AL, 01
MOV DX, FF30
OUT DX, AL
MOV AL, F9
MOV DX, FF32
OUT DX, AL
HLT
↓
G1100
    
```

## \* From memory in 7 segment

A1100

MOV AL, 80

MOV DX, FF36

OUT DX, AL

MOV DI, 1200

MOV SI, 1300

MOV AL, [SI]

MOV DX, FF30

OUT DX, AL

MOV AL, [DI]

MOV DX, FF32

OUT DX, AL

HLT

↓ double enter

M1200

↓ enter

F9

↓ double enter

M1300

↓

01

↓ double enter

G1100



## \* 7 segment display blinking

```
MOV AL, 80
MOV DX, FF36
OUT DX, AL
1106 — MOV DI, 1200
      MOV BL, 03
      MOV SI, 1300
110E — MOV AL, [SI]
      MOV DX, FF30
      OUT DX, AL
      MOV AL, [DI]
      MOV DX, FF32
      OUT DX, AL
      MOV DX, FFFF
111D — DEC DX
      JNZ 111D
      INC DI
      INC SI
      DEC BL
      JNZ 110E
      JMP 1106
```

DI { 1200 - 46 - C  
1201 - 12 - S  
1202 - 06 - E

SI { 1300 - 10 - 5th  
1301 - 08 - 4th  
1302 - 04 - 3rd