Lecture 12

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Q1/Write ALP to find the summation of even order contents of memory locations starting from 3000 to 3009H and save the result in 4000H.

Q2/Write ALP to find the smallest number of contents of memory locations starting from 3000 to 3009H and save the result in 4000H.

```
LXI H, 3000
MVI C, 00
MVI B, 0A
MOV A, M     YY
ANI 01
JNZ          XX                                    1 And 1=1(odd)    &.   0 And 1=0 (even)
MOV A, C
ADD M
MOV C, A
INR L            XX
DCR B
JNZ            YY
MOV A, C
STA 4000
HLT
```

```
LXI H, 3000
MVI B, 09
MOV A, M
INR L              XX
CMP M
JC                 YY
MOV A, M
DCR B              YY
JNZ  XX
STA 4000
HLT
```

Note: M Comp. M+1=
1) IF M>M+1   CY=0
2) IF M<M+1   CY=1