8086 SAMPLE PROBLEMS

1. Adding two numbers

```
//press A ,give start address eg:1000

MOV AX,0
ADD AX,05
ADD AX,04
MOV [2000],AX
HLT

// press Esc
// press G , give start address , 1000
// press reset
// press M , give address 2000
// output will be on screen
```

2) Adding two numbers from memmory

```
MOV AX, [2000]
ADD AX, [2002]
MOV [2022], AX
HLT

// press M , enter 2000 , enter value if needed , press esc
// press M , enter 2002 , enter value if needed , press esc
// execute output will be on 2022
```

3) Array - moving elements of one array to another array

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4) Sum of array in location 2000

```
1000 : MOV CX , 05
1003 : MOV SI , 2000
1006 : MOV AX , 00
1009 : ADD AX , [SI]
100A : INC SI
100B : DEC CX
100C : JNZ 1009
100F : HLT
```

5) To find average of above array

```
1000 : MOV CX , 05

1003 : MOV SI , 2000

1006 : MOV AX , 00

1009 : ADD AX , [SI]

100A : INC SI

100B : DEC CX

100C : JNZ 1009

100F : DIV 05

1010 : MOV [3000] ,AL  //result will be on AL and reminder on AH

1013 : HLT
```

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