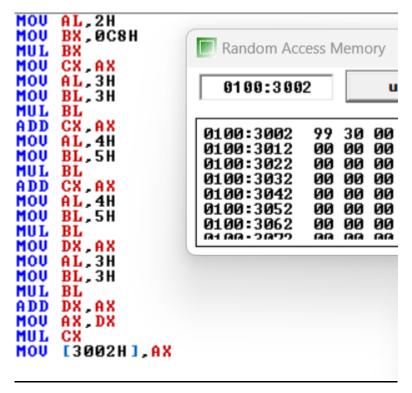
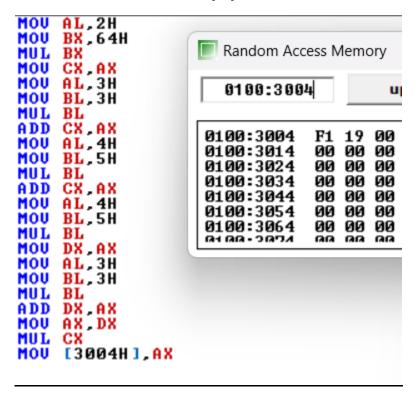
Q1(A)

```
MOU
     AL,2H
     BL,2H
MOU
                         Random Access Memory
MUL
     \mathbf{B}\mathbf{X}
     CX, AX
MOU
     AL,3H
BL,3H
MOU
                         0100:3000
                                             u
MOU
MUL
     \mathbf{BL}
     CX, AX
ADD
                       0100:3000
                                    BD 03
                                            00
MOU
     AL,4H
                       0100:3010
                                    00 OO
                                           00
     BL,5H
MOU
                       0100:3020
                                    00 00
                                            00
MUL
     \mathbf{BL}
                       0100:3030
                                    00 00
                                            00
     CX, AX
ADD
                       0100:3040
                                        00
                                            00
                                    00
     AL,4H
BL,5H
MOU
                       0100:3050
                                    00
                                        00
                                            00
MOU
                       0100:3060
                                    00
                                        00
                                            00
MUL
     BL
                       NT NO - 2070
                                    សស
                                        លល
                                            លល
MOU
     DX,AX
MOU
     AL,3H
MOU
     BL,3H
MUL
     BL
     DX AX
ADD
MOU
     AX.DX
MUL
     CX
MOU [3000H], AX
```

Q1(B)



Q1(C)



Q2(A)

```
MOU
    AL,12H
MOU
    BL.AL
                                21
                                   00 00
                    0100:3006
ROR BL, 4
                    0100:3016
                                00 00 00
MOU [3006H], BL
                    0100:3026
                                00 00 00
                    0100:3036
                                00 00
                                       00
                                   00
                    0100:3046
                                00
                                       00
                    0100:3056
                                ØΘ
                                   ØΘ
                                       ОО
                    0100:3066
                                00
                                   00
                                       00
                    M4 MM • 2M7C
                                ឧ
                                   ឧទ
                                       ឧទ
```

Q2(B)

```
MOU [2050H],1234H
                          0100:3008
MOU AL,[2050H]
    AH,[2051H]
MOU
    BL.AL
MOU
                        0100:3008
                                   21 43 0
MOU
    BH, AH
                        0100:3018
                                   00 00 0
ROR
    BH , 4
                        0100:3028
                                   00 00 O
ROR
    BL,4
                        0100:3038
                                   00 00 0
MOU
    AL.BH
                        0100:3048
                                   00 00
                                         Ø
MOU AH, BL
                        0100:3058
                                   00
                                      00
                                         Ø
MOU [3008H], AX
                        0100:3068
                                   00
                                      00
                                         Ø
                                   രെ രര
                                         a
```

Q2(C)

```
MOU
    AL,56H
                       0100:3010
                                         updat
MOU
    BL,0X0F
AND AL, BL
MOU [3010H], AL
                     0100:3010
                                 Ø6
                                    00 50 00
                     0100:3020
                                 00 00
                                       00 00
    AL,56H
MOU
                                 00 OO
                                       00 00
                     0100:3030
MOU
    BH, 0XF0
                     0100:3040
                                 00 00
                                       00 00
AND
    AL BH
                     0100:3050
                                 00 00
                                       00 00
MOU [3012H].AL
                     0100:3060
                                 00 00
                                       00
                                           00
                     0100:3070
                                    00
                                       00
                                 00
                                           00
                     NONC - NN FN
                                 രെ രെ
                                       លល
                                           លល
```