```asm
1    ;Exp 01a : Simple assembly langauge programming 8051 microcontroller
2    ;A2 311036 Malhar Deshmukh
3    ;6-Jul-2018
4
5    org 0000h
6
7        mov 30h,#34h ;move a packed BCD number
8                     ;into given location
9        mov a,30h    ;get the number in A
10       anl a,#0f0h  ;Logically AND A with 11110000
11                    ;this gets us the MSB number
12       swap a       ;move the digit to lower side
13       mov r1,a     ;move the MSB digit to R1
14       mov a,30h    ;move the original numbe rinto a again
15       anl a,#0fh   ;Separate the LSB by logically ANDing
16                    ; A with 00001111
17       mov r0,a     ;move the LSB digit to R0
18       mov b,r1     ;get the MSB digit into B
19       mul ab       ;multiply A with B
20       mov r7,a     ;the result of multipication is
21                    ; Stored in R7
22       mov b,#10    ;move 10 in b
23       div ab       ;Divide A by B(10) to get the Ten's place in the
24                    ; Result of multiplication into A as Quotiant and
25                    ; the Unit's place into B as Remiander
26       swap a       ;move the Digit to MSB
27       orl a,b      ;as A has the digit at Ten's place in MSB,
28                    ;and B has the digit at units place,
29                    ;Logically Or those together
30                    ;to get a number in packed BCD format
31       mov 31h,a    ;Move the result into 31h as required
32
33   end
34
```