

```
1 ;Exp 01b : Simple assembly language programming 8051 microcontroller
2 ;A2 311036 Malhar Deshmukh
3 ;6-Jul-2018
4
5 org 0000h
6     mov r1,#40h           ;source
7     mov DPTR,#3000h       ;destination
8     mov r2,#5h           ;length of block = 5  stored in r2
9
10 MovData:
11     mov a,@r1             ;move from addr in r1 to A
12     movx @DPTR,a          ;move to addr in external RAM from A,
13                           ; DPTR pointing to address
14     inc DPTR              ;increment destination pointer
15     inc r1                ;increment source pointer
16     djnz r2,Movdata       ;dec r2,jump if r2!=0
17 end
18
```