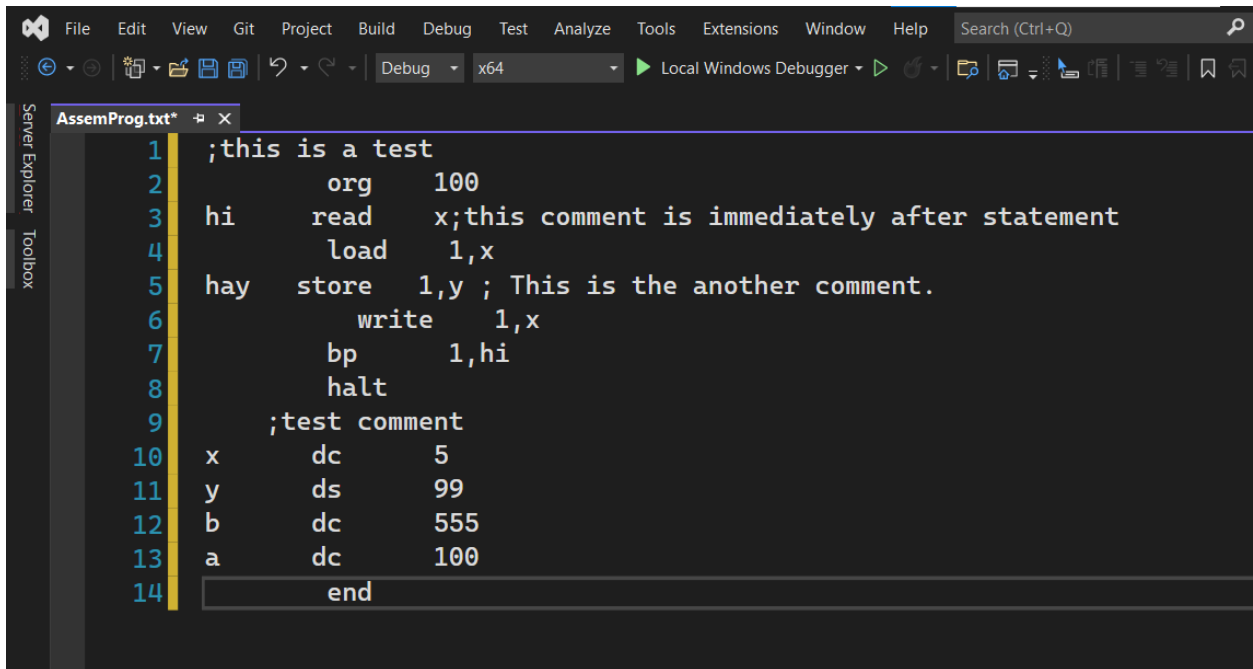
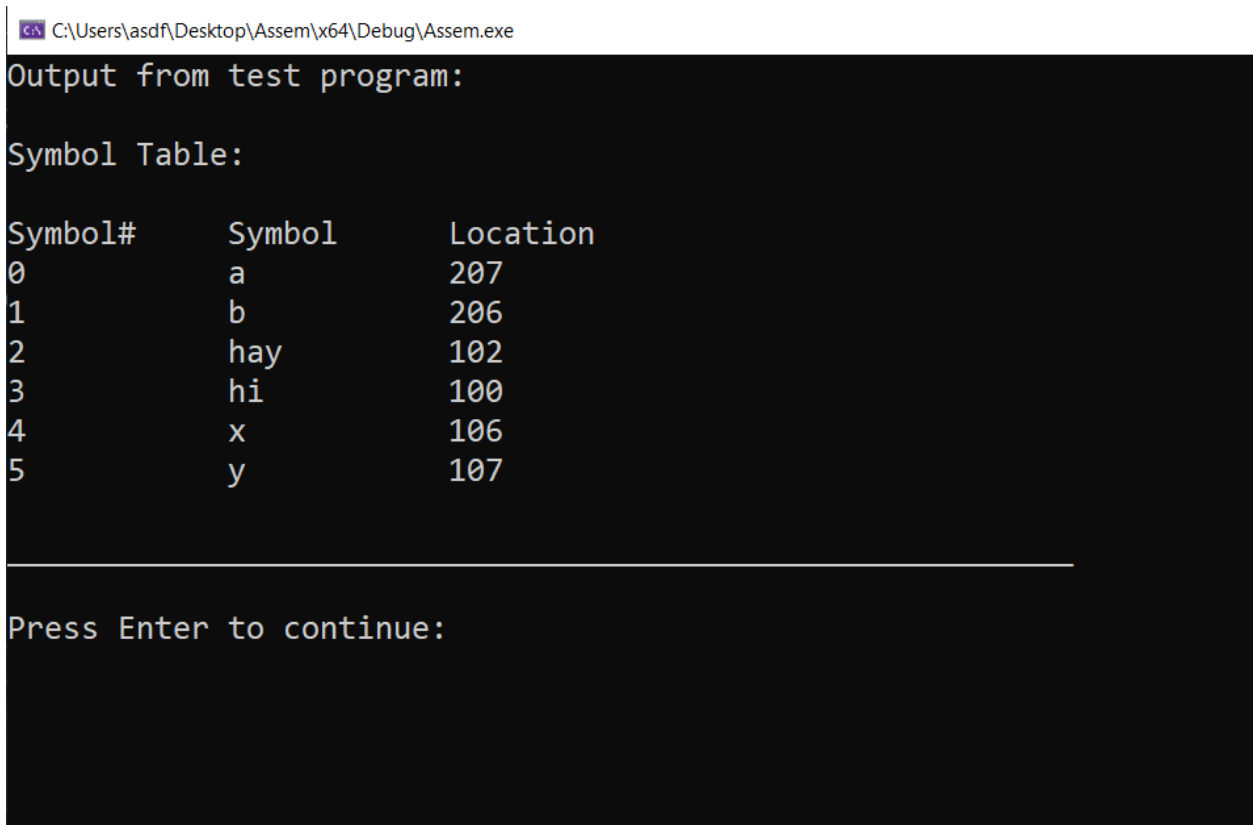


Input file



```
1 ;this is a test
2     org     100
3 hi   read   x;this comment is immediately after statement
4     load    1,x
5 hay  store  1,y ; This is the another comment.
6     write   1,x
7     bp      1,hi
8     halt
9     ;test comment
10 x     dc     5
11 y     ds     99
12 b     dc     555
13 a     dc     100
14     end
```

Initial output screen



```
C:\Users\asdf\Desktop\Assem\x64\Debug\Assem.exe
Output from test program:

Symbol Table:

Symbol#      Symbol      Location
0            a          207
1            b          206
2            hay        102
3            hi         100
4            x          106
5            y          107

Press Enter to continue:
```

After pressing enter

```
C:\Users\asdf\Desktop\Assem\x64\Debug\Assem.exe
Output from test program:

Symbol Table:

Symbol#    Symbol    Location
0          a      207
1          b      206
2        hay      102
3         hi      100
4          x      106
5          y      107

Press Enter to continue:

Translation of Program:
Location  Contents                                Original Statement
0                                     ;this is a test
0          119000106                      org    100
100        051000106                      hi     read  x;this comment is immediately after statement
101        061000107                      load   1,x
102        121000106                      hay    store 1,y ; This is the another comment.
103        161000106                      write  1,x
104        179000000                      bp     1,hi
105                                     halt
                                     ;test comment
106        000000005                      x      dc    5
107        000000555                      y      ds    99
206        000000100                      b      dc    555
207        000000100                      a      dc    100
                                     end

Press enter to continue
_
```

After enter

```

Press enter to continue

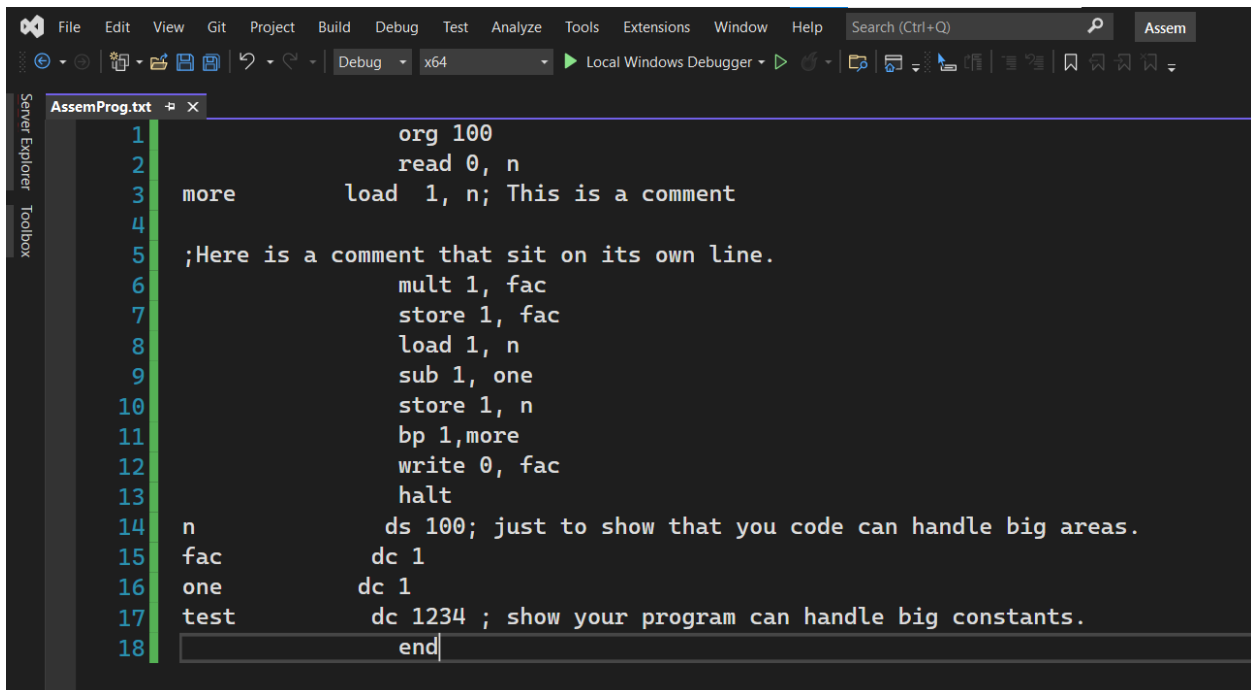
Results from emulating program
?10
10
?144
144
?-7
-7
End of emulation

C:\Users\asdf\Desktop\Assem\x64\Debug\Assem.exe (process 81544) exited with code 0
.
To automatically close the console when debugging stops, enable Tools->Options->De
bugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

```

Another sample code from course website
 Assembler language program which will read in a number "n" and
 then compute and print the value of n!

Input file



```

1      org 100
2      read 0, n
3  more    load 1, n; This is a comment
4
5  ;Here is a comment that sit on its own line.
6      mult 1, fac
7      store 1, fac
8      load 1, n
9      sub 1, one
10     store 1, n
11     bp 1, more
12     write 0, fac
13     halt
14  n      ds 100; just to show that you code can handle big areas.
15  fac    dc 1
16  one    dc 1
17  test   dc 1234 ; show your program can handle big constants.
18      end

```

Output from test program:

Symbol Table:

Symbol#	Symbol	Location
0	fac	210
1	more	101
2	n	110
3	one	211
4	test	212

Press Enter to continue:

Translation of Program:

Location	Contents	Original Statement
0		org 100
100	110000110	read 0, n
101	051000110	more load 1, n; This is a comment
		;Here is a comment that sit on its own line.
102	031000210	mult 1, fac
103	061000210	store 1, fac
104	051000110	load 1, n
105	021000211	sub 1, one
106	061000110	store 1, n
107	161000101	bp 1,more
108	120000210	write 0, fac
109	179000000	halt
110		n ds 100; just to show that you code can handle big areas.
210	000000001	fac dc 1
211	000000001	one dc 1
212	000001234	test dc 1234 ; show your program can handle big constants.
		end

Press enter to continue

Results from emulating program

?5

120

End of emulation

C:\Users\asdf\Desktop\Assem\x64\Debug\Assem.exe (process 86396) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .