2016 시스템 프로그래밍
- 5주차 -

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분 반	00
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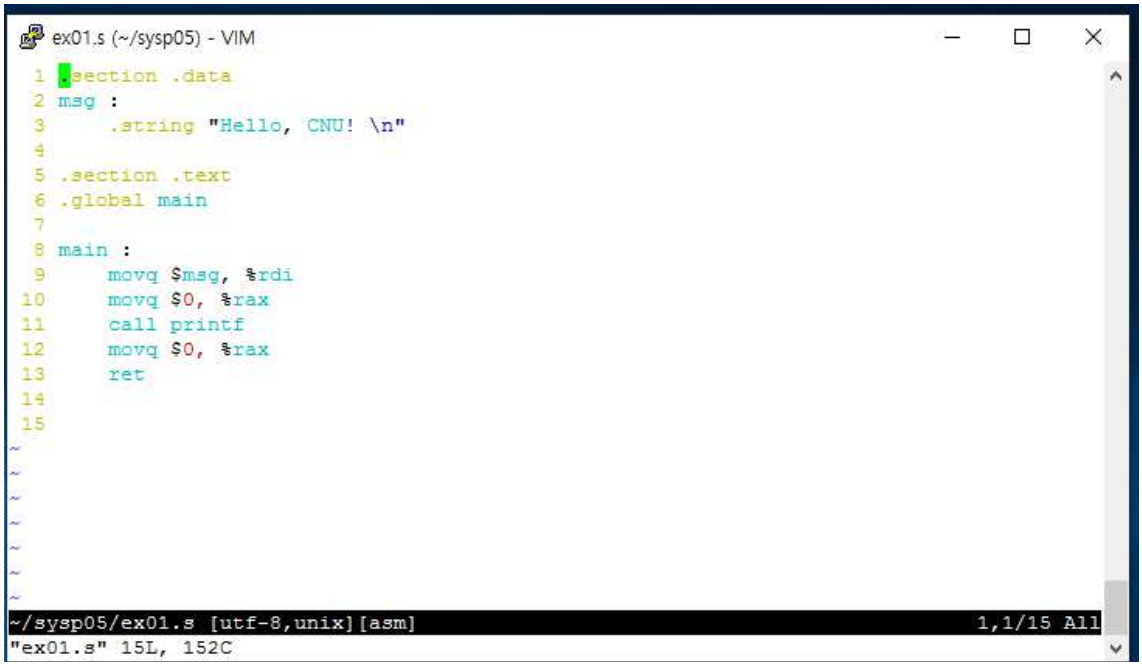
따라하기 1

소스코드 스크린샷

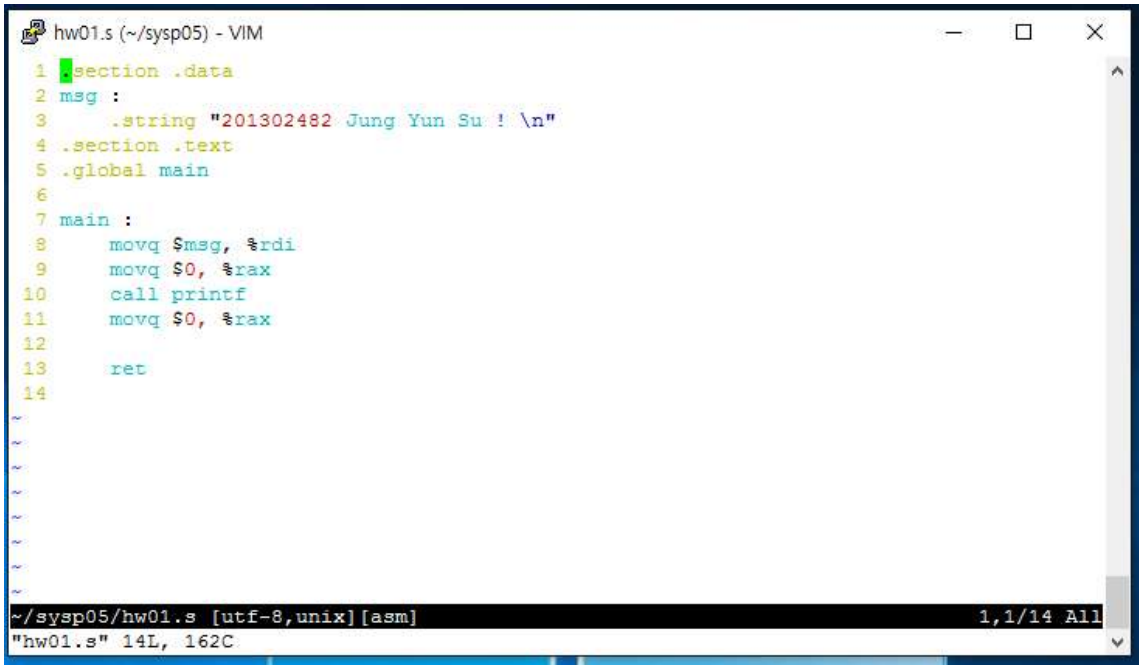
(putty 창이 보이게 스크린 샷)



결과화면 캡쳐

실습 1

소스코드 스크린샷



결과화면

```
a201302482@localhost:~/sysp05$ ./hw01.out
201302482 Jung Yun Su !
a201302482@localhost:~/sysp05$
```

따라하기 2

소스코드 스크린샷

ex02.s (~/sysp05) - VIM

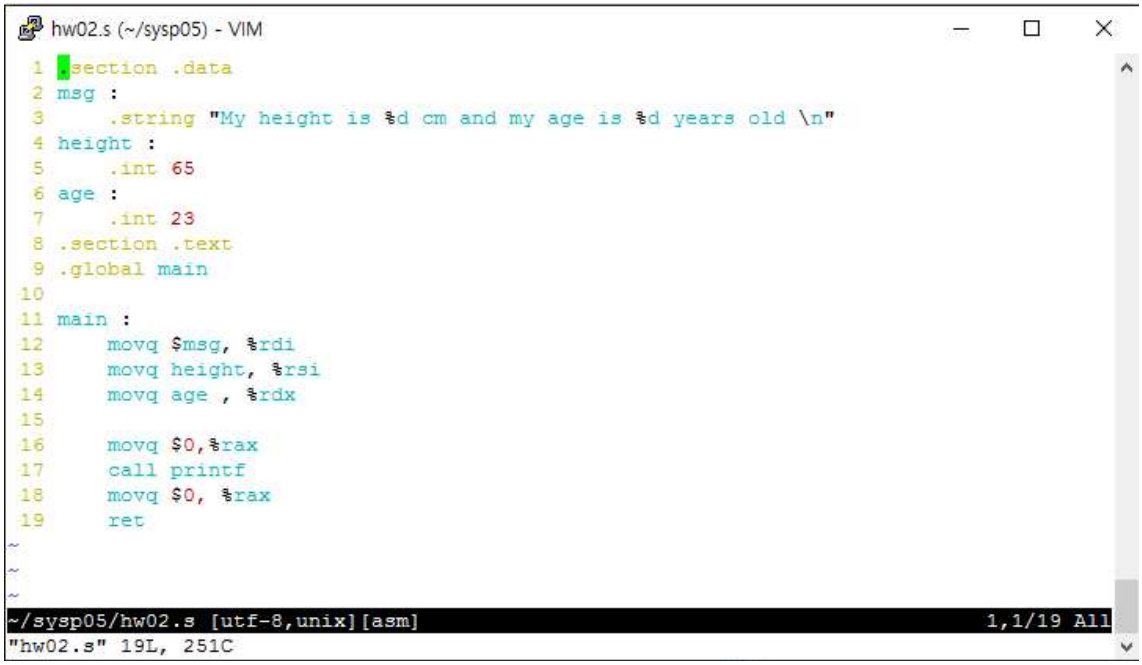
```
 1 .section .data
 2 msg:
 3     .string "val1 = %d val2 = %d val3 = %d \n"
 4 val1:
 5     .int 100
 6 val2:
 7     .int 200
 8 val3:
 9     .int 300
10
11 .section .text
12 .global main
13
14 main :
15     movq $msg, %rdi
16     movq val1, %rsi
17     movq val2, %rdx
18     movq val3, %rcx
19     movq $0, %rax
20     call printf
21     movq $0, %rax
22     ret
~/sysp05/ex02.s [utf-8,unix][asm]                                 1,1/23 Top
"ex02.s" 23L, 266C
```

결과화면

```
a201302482@localhost:~/sysp05$ ./ex02.out
val1 = 100 val2 = 200 val3 = 300
a201302482@localhost:~/sysp05$
```

실습 2

소스코드 스크린샷

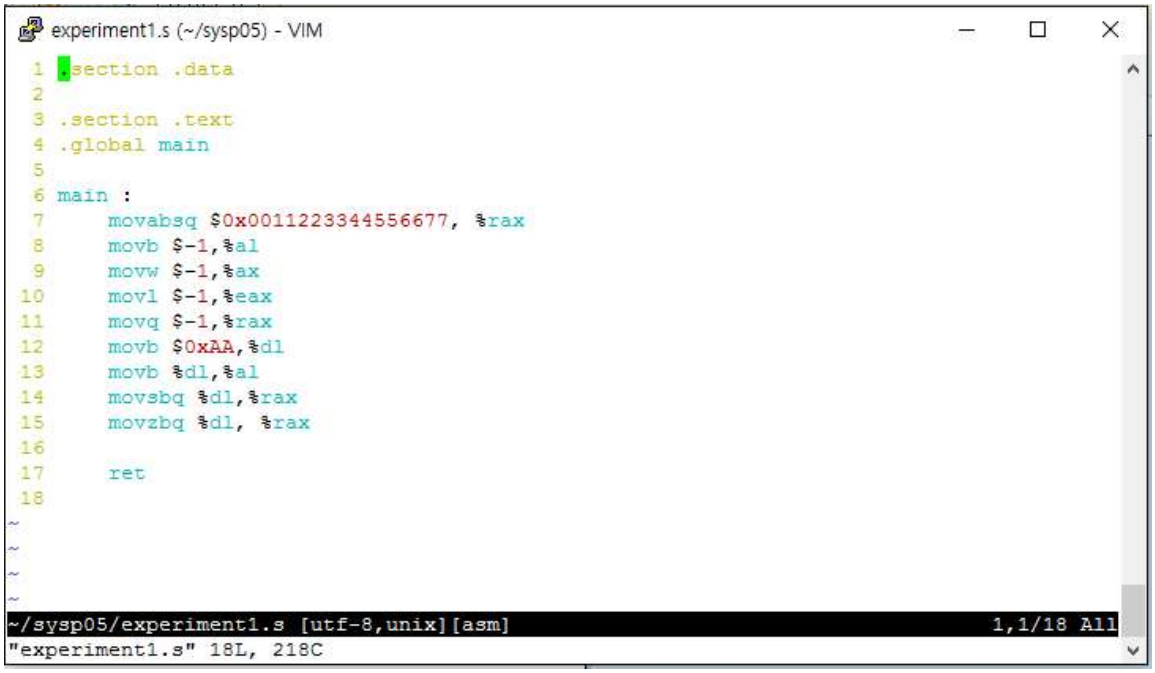


결과화면

```
a201302482@localhost:~/sysp05$ ./hw02.out
My height is 65 cm and my age is 23 years old
a201302482@localhost:~/sysp05$
```

문제 1

소스코드 스크린샷



결과화면

```
a201302482@localhost: ~/sysp05
<http://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from experiment1.out...done.
(gdb) break main
Breakpoint 1 at 0x4004ed: file experiment1.s, line 7.
(gdb) run
Starting program: /home/sys00/a201302482/sysp05/experiment1.out

Breakpoint 1, main () at experiment1.s:7
warning: Source file is more recent than executable.
7               movabsq $0x0011223344556677, %rax
(gdb) p/x $rax
$1 = 0x4004ed
(gdb) next
8               movb $-1,%al
(gdb) p/x $rax
$2 = 0x11223344556677
(gdb) next
9               movw $-1,%ax
(gdb) p/x $rax
$3 = 0x112233445566ff
(gdb) next
10              movl $-1,%eax
```

```
(gdb) p/x $rax
$4 = 0x1122334455ffff
(gdb) next
11              movq $-1,%rax
(gdb) p/x $rax
$5 = 0xffffffff
(gdb) next
12              movb $0xAA,%dl
(gdb) p/x $rax
$6 = 0xffffffffffffffff
(gdb) next
13              movb %dl,%al
(gdb) p/x $rax
$7 = 0xffffffffffffffff
(gdb) next
14              movsbq %dl,%rax
(gdb) p/x $rax
$8 = 0xffffffffffffffaa
(gdb) next
15              movzbq %dl, %rax
(gdb) p/x $rax
$9 = 0xffffffffffffffaa
(gdb) next
main () at experiment1.s:17
17              ret
(gdb) p/x $rax
$10 = 0xaa
(gdb)
```