

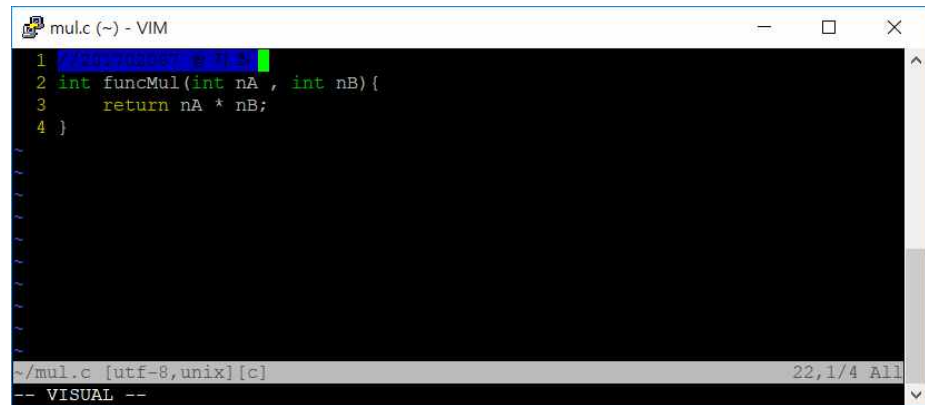
2018년 시스템 프로그래밍

- HW 02 -

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실습 1

조건 1
(mul.c)



```

1 //funcMul.c
2 int funcMul(int nA , int nB){
3     return nA * nB;
4 }

~/mul.c [utf-8,unix][c] 22,1/4 All
-- VISUAL --

```

조건 2
(div.c)



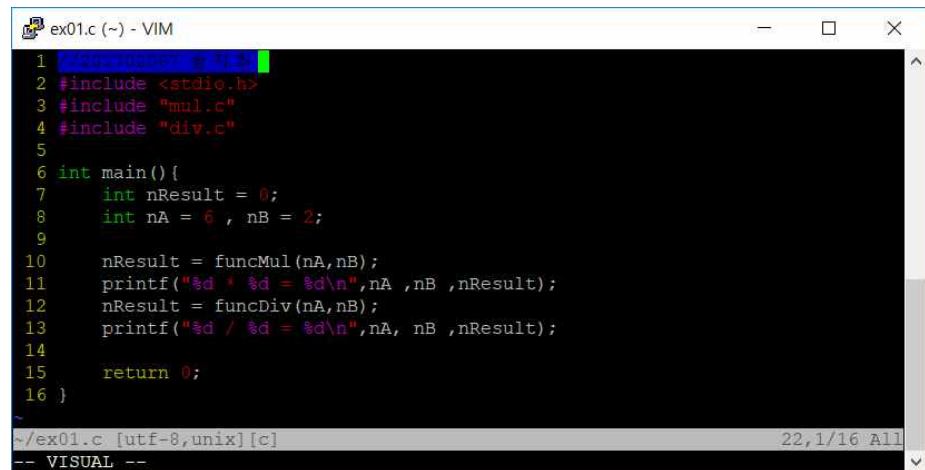
```

1 //funcDiv.c
2 int funcDiv(int nA , int nB){
3     return nA / nB;
4 }

~/div.c [utf-8,unix][c] 22,1/4 All
-- VISUAL --

```

조건 3
(ex01.c)

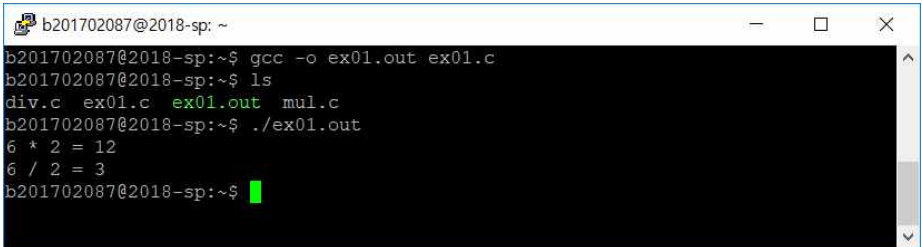


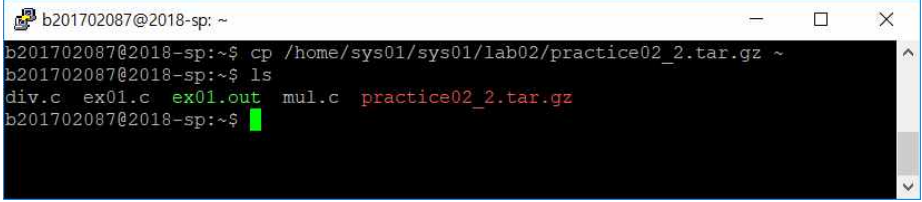
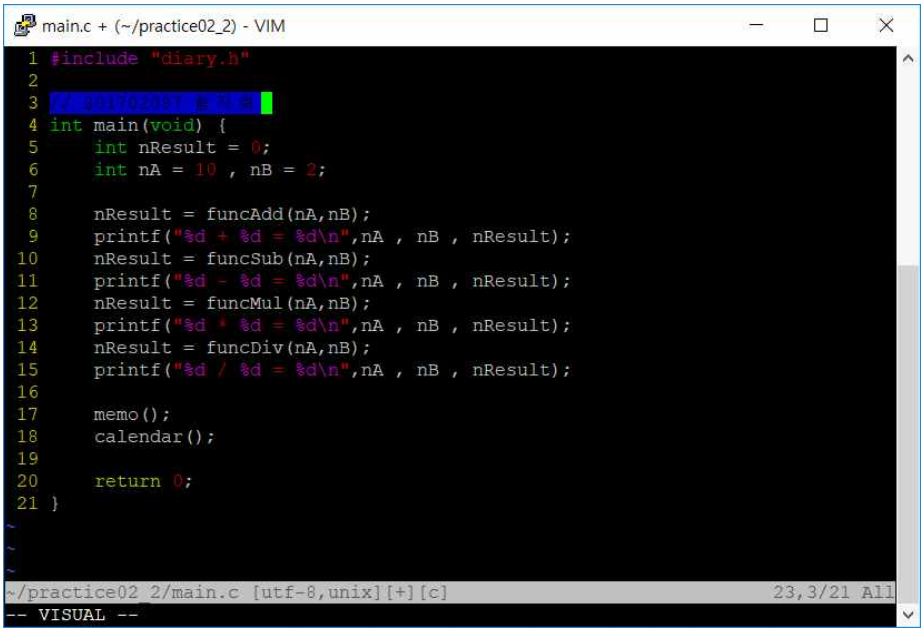
```

1 //ex01.c
2 #include <stdio.h>
3 #include "mul.c"
4 #include "div.c"
5
6 int main(){
7     int nResult = 0;
8     int nA = 6 , nB = 2;
9
10    nResult = funcMul(nA,nB);
11    printf("%d * %d = %d\n",nA ,nB ,nResult);
12    nResult = funcDiv(nA,nB);
13    printf("%d / %d = %d\n",nA, nB ,nResult);
14
15    return 0;
16 }

~/ex01.c [utf-8,unix][c] 22,1/16 All
-- VISUAL --

```

결과화면	 <pre> b201702087@2018-sp: ~ b201702087@2018-sp:~\$ gcc -o ex01.out ex01.c b201702087@2018-sp:~\$ ls div.c ex01.c ex01.out mul.c b201702087@2018-sp:~\$./ex01.out 6 * 2 = 12 6 / 2 = 3 b201702087@2018-sp:~\$ </pre>
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실습 2	
조건 1 (cp 명령어)	 <pre> b201702087@2018-sp: ~ b201702087@2018-sp:~\$ cp /home/sys01/sys01/lab02/practice02_2.tar.gz ~ b201702087@2018-sp:~\$ ls div.c ex01.c ex01.out mul.c practice02_2.tar.gz b201702087@2018-sp:~\$ </pre>
조건 2 (main.c)	 <pre> main.c + (~/.practice02_2) - VIM 1 #include "diary.h" 2 3 // TODO: Add your code here 4 int main(void) { 5 int nResult = 0; 6 int nA = 10 , nB = 2; 7 8 nResult = funcAdd(nA,nB); 9 printf("%d + %d = %d\n",nA , nB , nResult); 10 nResult = funcSub(nA,nB); 11 printf("%d - %d = %d\n",nA , nB , nResult); 12 nResult = funcMul(nA,nB); 13 printf("%d * %d = %d\n",nA , nB , nResult); 14 nResult = funcDiv(nA,nB); 15 printf("%d / %d = %d\n",nA , nB , nResult); 16 17 memo(); 18 calendar(); 19 20 return 0; 21 } ~ ~ ~/practice02_2/main.c [utf-8,unix][+][c] 23,3/21 All -- VISUAL -- </pre>

<p>조건 3 (Makefile)</p>	 <pre> 1 CC = gcc 2 CFLAGS = -w -Wall 3 TARGET = diary.out 4 5 all : \$(TARGET) 6 7 \$(TARGET) : memo.o calendar.o main.o add.o sub.o mul.o div.o 8 \$(CC) \$(CFLAGS) -o \$@ \$^ 9 10 memo.o : memo.c 11 \$(CC) \$(CFLAGS) -c -o \$@ \$^ 12 13 calendar.o : calendar.c 14 \$(CC) \$(CFLAGS) -c -o \$@ \$^ 15 16 main.o : main.c 17 \$(CC) \$(CFLAGS) -c -o \$@ \$^ 18 19 add.o : add.c 20 \$(CC) \$(CFLAGS) -c -o \$@ \$^ 21 22 sub.o : sub.c 23 \$(CC) \$(CFLAGS) -c -o \$@ \$^ 24 25 mul.o : mul.c 26 \$(CC) \$(CFLAGS) -c -o \$@ \$^ 27 28 div.o : div.c 29 \$(CC) \$(CFLAGS) -c -o \$@ \$^ </pre> <p>gcc -w -wall -c -o memo.o memo.c로(다른 c파일들도) 하나씩 다 오브젝트파일 만들어주고, diary.out 실행파일에서 함께 컴파일해야하는걸 Makefile에서 종속관계에 따라 적절하게 매크로 참조하면서 써주면 make명령어로 편하게 컴파일 할 수 있음. \$는 참조기호고, \$@는 현재타겟, \$^는 현재타겟의 종속 항목 리스트임.</p>
<p>조건 4 (실행화면)</p>	 <pre> b201702087@2018-sp: ~/practice02_2 b201702087@2018-sp:~/practice02_2\$ ls add.c calendar.c diary.h div.c main.c Makefile memo.o mul.o sub.o add.o calendar.o diary.out div.o main.o memo.c mul.c sub.c b201702087@2018-sp:~/practice02_2\$./diary.out 10 + 2 = 12 10 - 2 = 8 10 * 2 = 20 10 / 2 = 5 function memo. function calendar. b201702087@2018-sp:~/practice02_2\$ </pre>
<p>조건 5 (make clean)</p>	 <pre> b201702087@2018-sp: ~/practice02_2 b201702087@2018-sp:~/practice02_2\$ ls add.c calendar.c diary.h div.c main.c Makefile memo.o mul.o sub.o add.o calendar.o diary.out div.o main.o memo.c mul.c sub.c b201702087@2018-sp:~/practice02_2\$ make clean rm -rf *.o rm -rf *.out b201702087@2018-sp:~/practice02_2\$ ls add.c calendar.c diary.h div.c main.c Makefile memo.c mul.c sub.c b201702087@2018-sp:~/practice02_2\$ </pre>