

# 운영체제 과제

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## 과제 내용

### 프로세스 및 스레드 실제

【prog\_04\_10】 프로세스 생성(로드) 및 실행(유닉스/리눅스 시스템)<sub>1</sub>

```
001 /*-----*/
002 /*          prog_04_10.c          */
003 /*      A sample code for process creation      */
004 /*      (UNIX/LINUX process based)      */
005 /*-----*/

006 #include <stdio.h>

007 void main(int ac, char *av[])
008 {
009     printf("I am child ...Wn");
010     printf("I will do something ...Wn");
011     printf("Finishing child ...Wn");
012 }
```

【prog\_04\_11】 프로세스 생성(로드) 및 실행(유닉스/리눅스 시스템)<sub>2</sub>

```
001 /*-----*/
002 /*          prog_04_11.c          */
003 /*      A sample code for process creation      */
004 /*      (UNIX/LINUX process based)      */
005 /*-----*/

006 #include <stdio.h>
007 #include <stdlib.h>

008 void main(int ac, char *av[])
009 {
010     if (fork() == 0) { /* child */
011         execl("./prog_4_10", NULL);
012         exit(0);
013     }
014     else { /* parent */
015         wait(NULL);

016         printf("Finishing parent...Wn");
017         exit(0);
018     }
019 }
```

octopus@sonseunghyeon-ui-MacBookAir test % vi prog\_04\_10.c

[illegible]

```
octopus@sonseunghyeon-ui-MacBookAir test % cc -o prog_04_10 prog_04_10.c
octopus@sonseunghyeon-ui-MacBookAir test % sudo ./prog_04_10
```

```
octopus@sonseunghyeon-ui-MacBookAir test % sudo ./prog_04_10
Password:
I am child ..
I will do something ...
Finishing child...
```

octopus@sonseunghyeon-ui-MacBookAir test % vi prog\_04\_11.c

```
test — vim prog_04_11.c — 80x24
#include<stdio.h>
#include<stdlib.h>
#include <unistd.h>
int main(int ac, char *av[])
{
    if (fork() == 0) {
        execl("./prog_04_10", NULL);
        exit(EXIT_SUCCESS);
    }
    else {
        wait(NULL);

        printf("Finishing parent ...\n");
        exit(EXIT_SUCCESS);
    }
    return 0;
}
~
~
~
~
~
~
"prog_04_11.c" 17L, 261B
```

```
octopus@sonseunghyeon-ui-MacBookAir test % cc -o prog_04_11 prog_04_11.c
octopus@sonseunghyeon-ui-MacBookAir test % sudo ./prog_04_11
```

```
octopus@sonseunghyeon-ui-MacBookAir test % sudo ./prog_04_11
I am child ..
I will do something ...
Finishing child...
Finishing parent ...
octopus@sonseunghyeon-ui-MacBookAir test %
```