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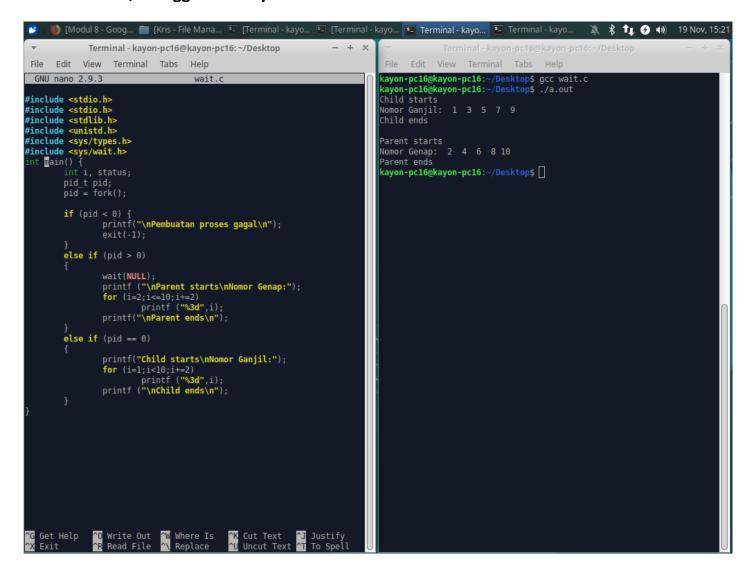
Kelas : A

MODUL 8

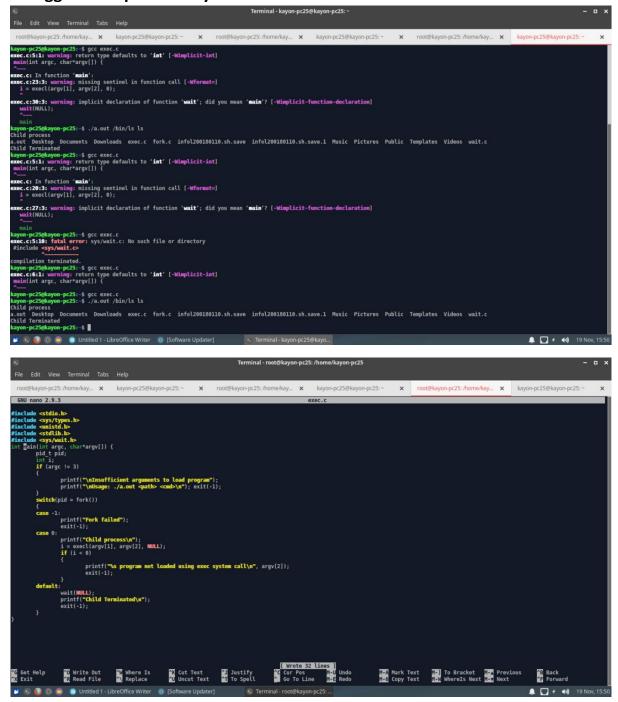
1. Membuat child "Child Process" dengan menggunakan System Call "Fork"

```
🔁 Terminal - kayon-pc16@kay... 🔼 Terminal - kayon-pc16@kay... 🔌 🕻 🗘 🐠 19 Nov, 15:00
                                                                                                                         Terminal - kayon-pc16@kayon-pc16: ~/Desktop
 File Edit View Terminal Tabs Help
                                                                                                        File Edit View Terminal Tabs Help
 GNU nano 2.9.3
                                                 fork.c
                                                                                                       fork.c:25:10: warning: too many arguments for format [-Wformat-extra-a
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
                                                                                                       kayon-pc16@kayon-pc16:~/Desktop$ gcc 'fork.c'
fork.c: In function 'main':
                                                                                                       fork.c:19:10: warning: unknown escape sequence: '\P'
  printf("\Process id of parent is %d\n\n", getppid());
          int x = 5;
pid = fork();
                                                                                                       fork.c:25:27: warning: spurious trailing '%' in format [-Wformat=]
    printf("\nValue of x is %", x);
           x++;
if (pid < 0)
                                                                                                       fork.c:25:10: warning: too many arguments for format [-Wformat-extra-a
                      printf("Process creation error"); exit(-1);
                                                                                                          printf("\nValue of x is %", x);
           else if (pid == 0)
                                                                                                       kayon-pc16@kayon-pc16:~/Desktop$ gcc fork.c
                      printf("Child process:");
printf("\nProcess id is %d", getpid());
printf("\nValue of x is %d", x);
printf("\nProcess id of parent is %d\n\n", getppid());
                                                                                                                  In function 'main':
                                                                                                      fork.c:19:10: warning: unknown escape sequence: '\P'
printf("\Process id of parent is %d\n\n", getppid());
                                                                                                       fork.c:25:27: warning: spurious trailing '%' in format [-Wformat=]
    printf("\nValue of x is %", x);
           }
else
                      printf("\nParent process:");
                                                                                                       fork.c:25:10: warning: too many arguments for format [-Wformat-extra-a
                      printf("\nProcess id is %d", getpid());
printf("\nValue of x is %d", x);
printf("\nProcess id of shell is %d\n", getppid());
                                                                                                       kayon-pc16@kayon-pc16:~/Desktop$ gcc fork.c
                                                                                                       fork.c: In function 'main':
                                                                                                       fork.c:19:10: warning: unknown escape sequence: '\P'
printf("\Process id of parent is %d\n\n", getppid());
                                                                                                      kayon-pc16@kayon-pc16:~/Desktop$ gcc fork.c
kayon-pc16@kayon-pc16:~/Desktop$ ./a.out
                                                                                                       Parent process:
                                                                                                       Process id is 1537
Value of x is 6
Process id of shell is 1481
                                                                                                       Child process:
                                                                                                      Process id is 1538
Value of x is 6
Process id of parent is 1537
                   Get Help
                                                                                                       kayon-pc16@kayon-pc16:~/Desktop$
```

2. Menghentikan sementara (block) proses parent dengan proses child selesai, menggunakan system call "wait"



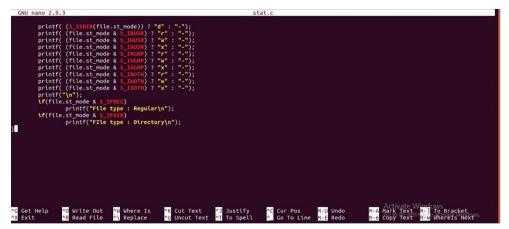
3. Loading Program yang dapat dieksekusi dalam sebuah "Child" Proses menggunakan perintah system call "exec"



4. Menambahkan status file menggunakan perintha system call "stat"

```
#include <stdio.h=
#include <stdio.h=
#include <stdio.h=
#include <stdib.h-
#include <stdib.h-
#include <tidib.h-
#include <td>#include #include <
```





5. Menampilkan isi direktori menggunakan perintah system call "readdir"

```
if (argc != 2)
{
                            printf("Usage: ./a.out <dirname>\n");
exit(-1);
              }
tf((dname = opendir(argv[1])) == NULL)
{
                           perror(argv[1]);
exit(-1);
              }
while(dptr=readdir(dname))
    printf("%s\n", dptr->d_name);
              closedir(dname);
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fitria@fitria-VirtualBox:-$ gcc dirlist.c
fitria@fitria-VirtualBox:-$ ./a.out dirlist.c
User id : 0
Group id : 0
Block size : 4096
Blocks allocated : 8
Inode no. : 530210
Last accessed : Thu Nov 21 21:17:00 2019
Last modified : Thu Nov 21 21:16:54 2019
File size : 360 bytes
No. of links : 1
Permission : -rw-r----
File type : Regular
fitria@fitria-VirtualBox:-$ ./a.out Downloads
 fitria@fitria-VirtualBox:~$ ./a.out Downloads
..
google-chrome-stable_current_amd64.deb
fitria@fitria-VirtualBox:~$ ./a.out Pictures
Screenshot from 2019-11-09 14-45-38.png
..
Screenshot from 2019-11-09 14-48-13.png
Screenshot from 2019-11-09 14-48-33.png
fitria@fitria-VirtualBox:~$
```