Nama : M. Jainal A NIM : L200180125

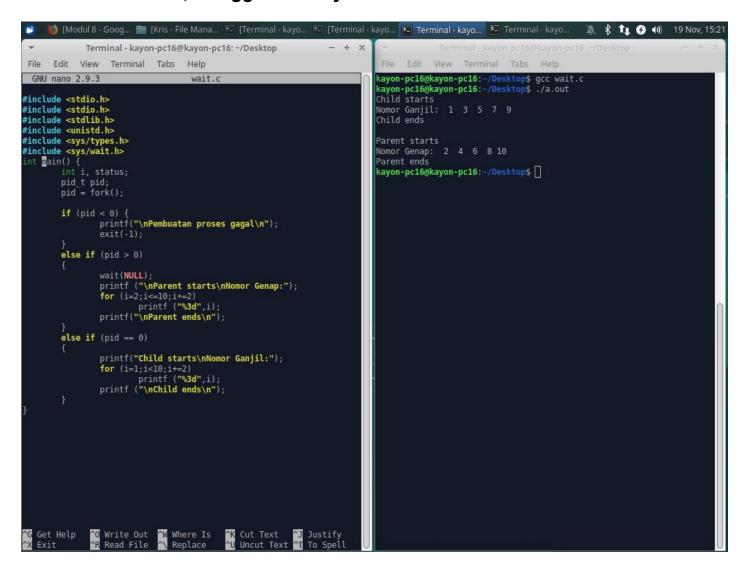
Kelas: C

MODUL 8

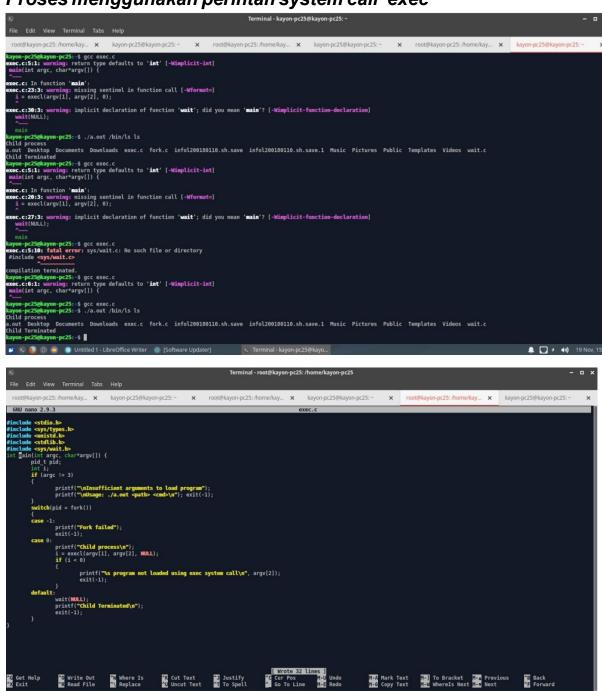
1. Membuatchild "Child Process" dengan menggunakan System Call "Fork"

```
🐞 [My Drive - Google Drive - ... 🧧 [Software Updater] 🕒 Terminal - kayon-pc16@kay... 🔁 Terminal - kayon-pc16@kay... 🔌 🕴 🕦 🐠 🕦 19 Nov, 15:00
                                                                                                                               Terminal - kayon-pc16@kayon-pc16: ~/Desktop
                 View Terminal Tabs Help
                                                                                                                    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>
                                                                                                            kayon-pc16@kayon-pc16:~/Desktop$ gcc 'fork.c'
#include <sys/types.h>
int main() {
    pid_t pid;
                                                                                                            fork.e: 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);
            if (pid < 0)
                                                                                                            fork.c:25:10: warning: too many arguments for format [-Wformat-extra-a
                       printf("Process creation error"); exit(-1);
           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());
                                                                                                            fork.e: 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:");
printf("\nProcess id is %d", getpid());
printf("\nValue of x is %d", x);
printf("\nProcess id of shell is %d\n", getppid());
                                                                                                            fork.c:25:10: warning: too many arguments for format [-Wformat-extra-a
                                                                                                                printf("\nValue of x is %", x);
                                                                                                            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
                                        ^W Where Is
^\ Replace
    Get Help
                    ^O Write Out
                                                                  Cut Text
                                                                                                            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"







```
File type : Regular
fitriagfitria-VirtualBox:-5 gcc stat.c
fitriagfitria-VirtualBox:-5 ; /a.out
Usage: ./a.out filename-
fitriagfitria-VirtualBox:-5 gcc stat.c
fitriagfitria-VirtualBox:-5 , /a.out stat.c
User id : 0
Group id : 0
Block size : 4096
Blocks alcated : 8
Inode no. : 555318
Last accessed : Thu Nov 21 21:09:24 2019
Last modified : Thu Nov 21 21:09:16 2019
File size : 1375 bytes
No. of links : 1
Permission : -rw-r-r--
File type : Regular
fitriagfitria-VirtualBox:-5 gcc stat.c
fitriagfitria-VirtualBox:-5 , /a.out stat.c
User id : 0
Group id : 0
Group id : 0
Block size : 4096
Blocks allocated : 8
Inode no. : 555318
Last accessed : Thu Nov 21 21:09:24 2019
Last modified : Thu Nov 22 21:09:16 2019
File size : 1375 bytes
No. of links : 1
Permission : -rw-r-r--
File type : Regular
File type : Regular
File type : Regular
File size : Regular
File size : Regular
File size : Regular
File type :
```

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

```
#include <stdio.h>
#include <dirent.h>
#include <stditb.h>
int main(int argc, char*argv[]){
    struct dirent *dptr;
    DIR *dname;
                  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);
 Activate Windows
M-A Mark Text M-1 To Bracket
M-6 Copy Text M-W Whereis Next W-
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--r-
File type : Regular
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:~$
```