Latihan Praktikum Sistem Operasi Modul ke-8

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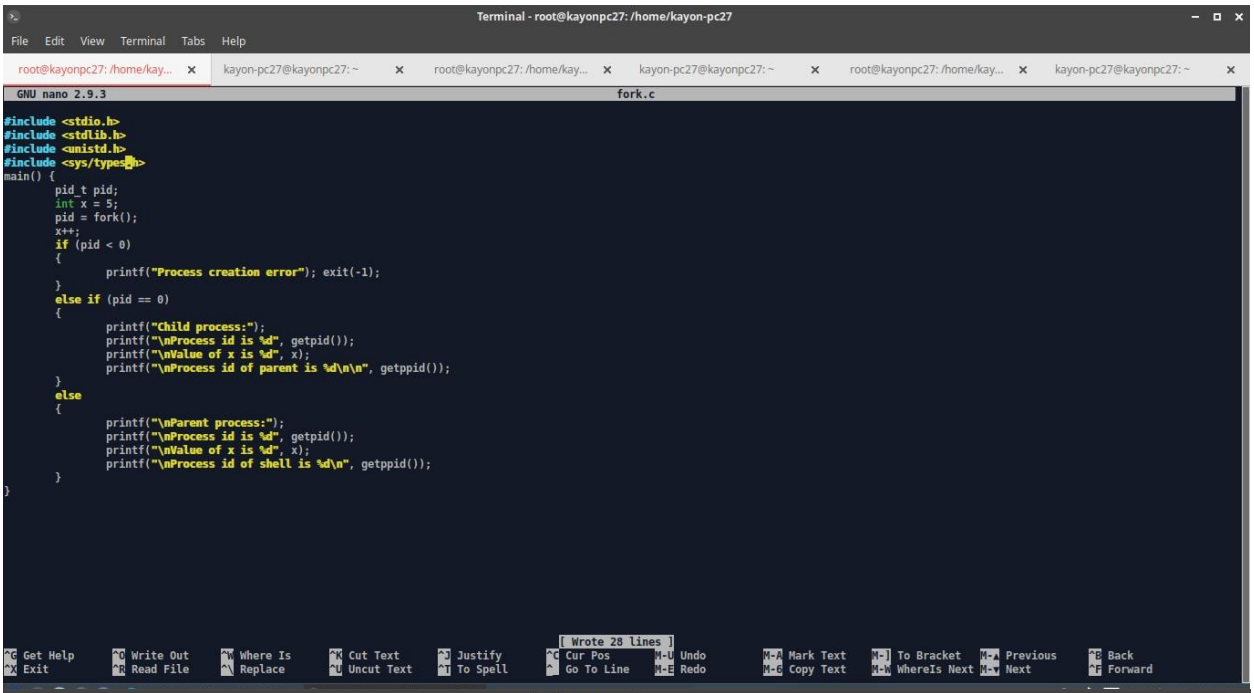
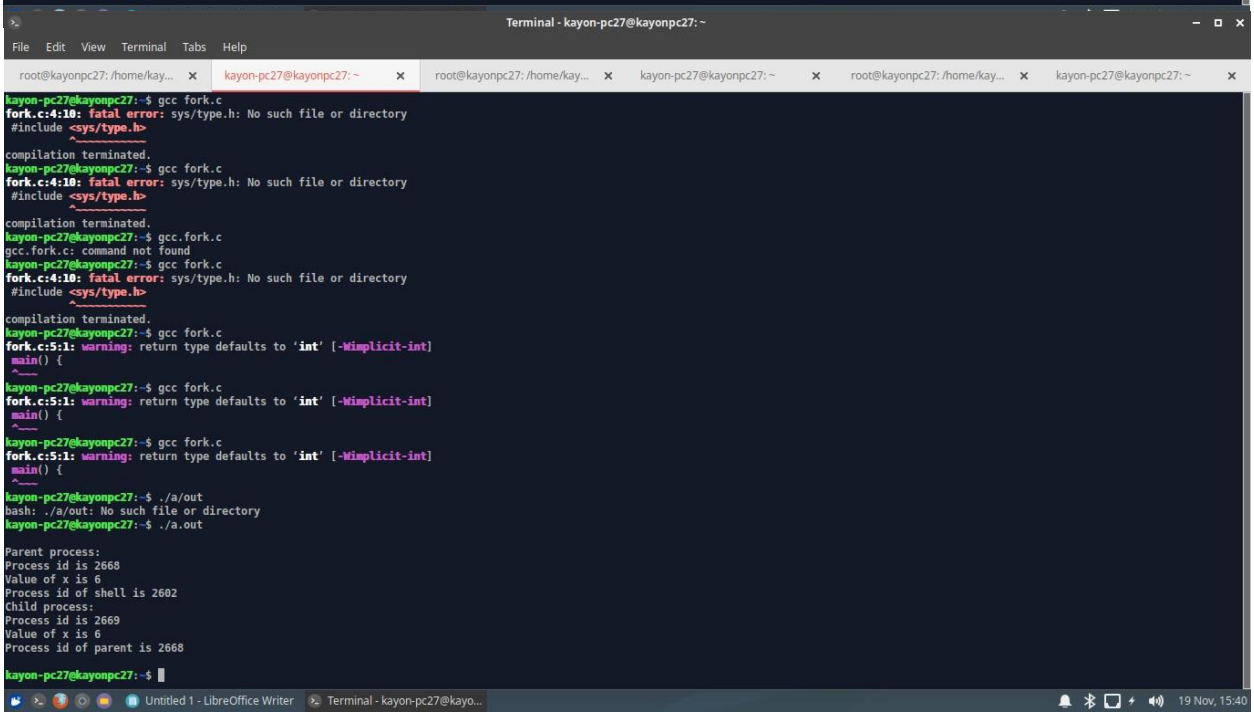
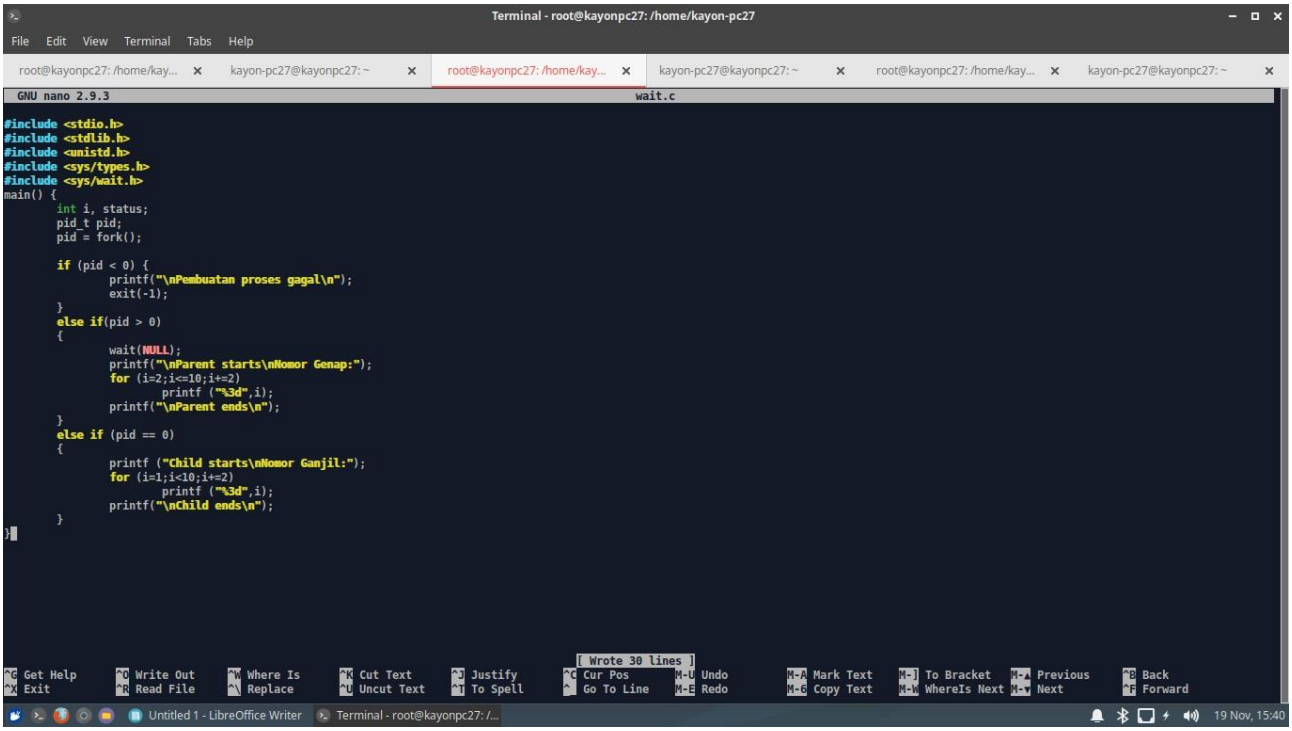
Kelas : A

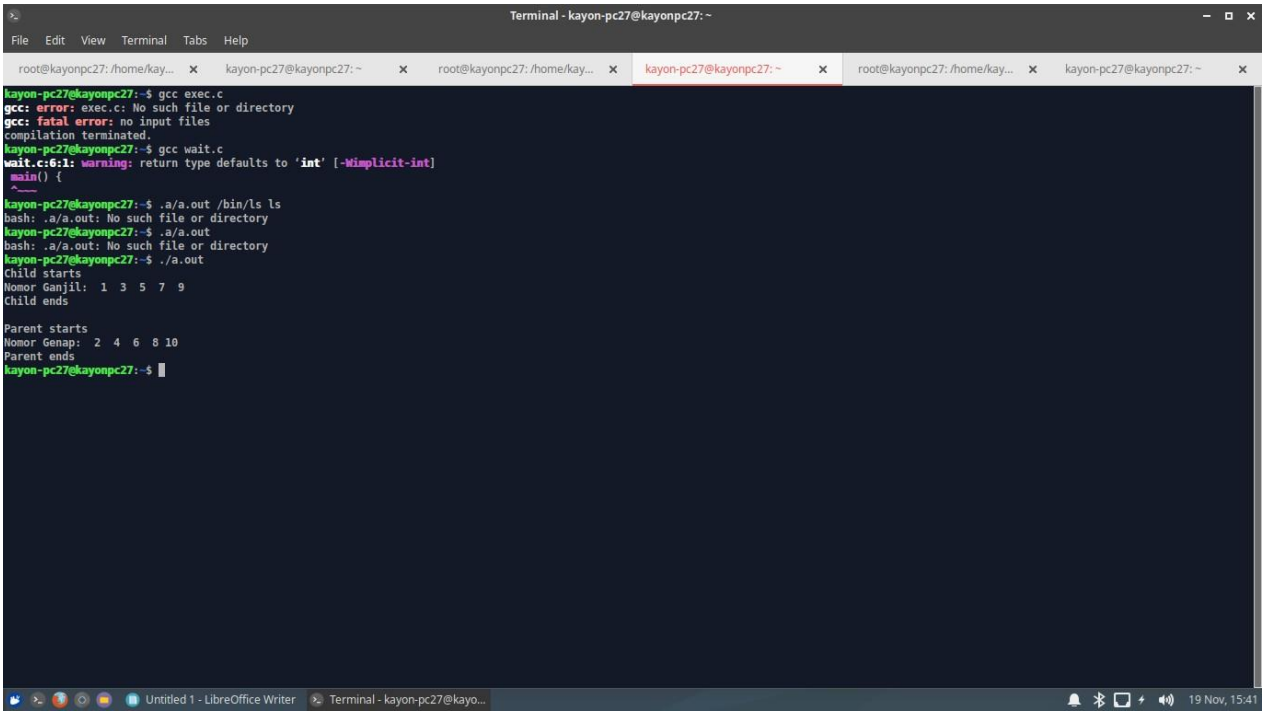
Kode program fork.c



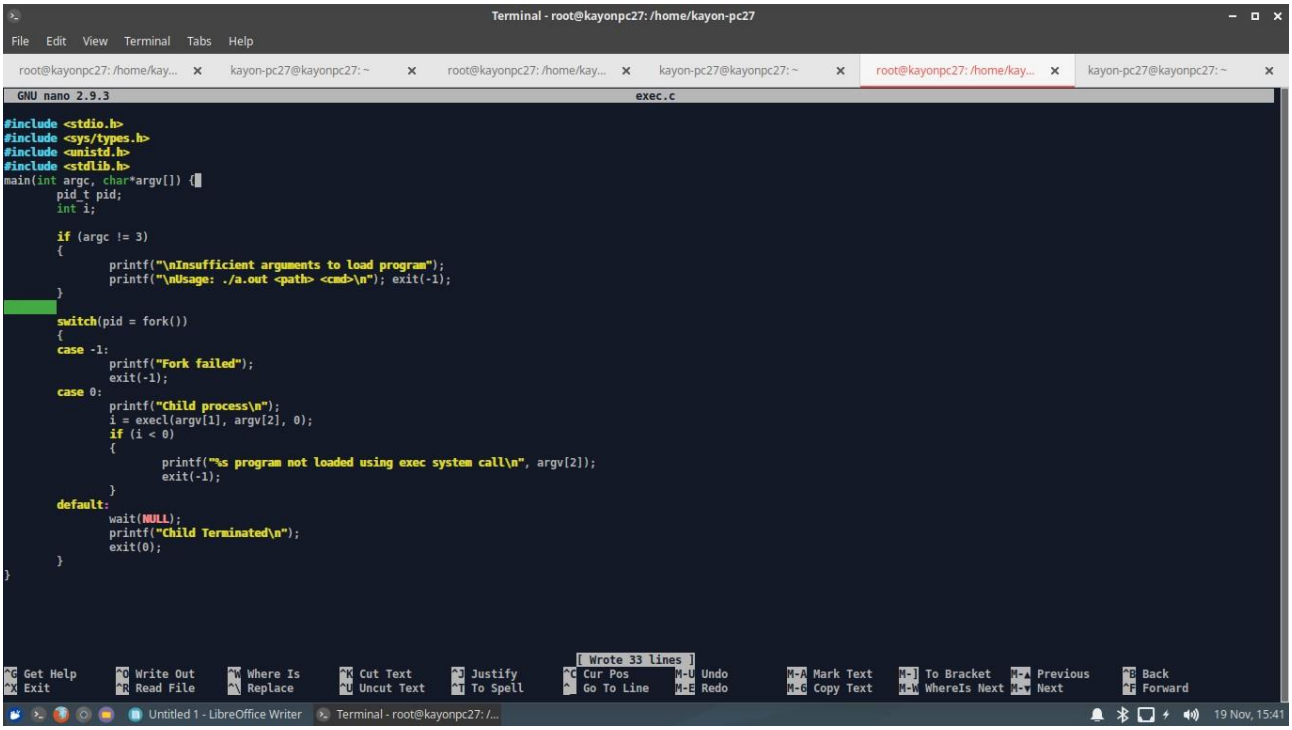


Kode program wait.c





Kode program exec.c



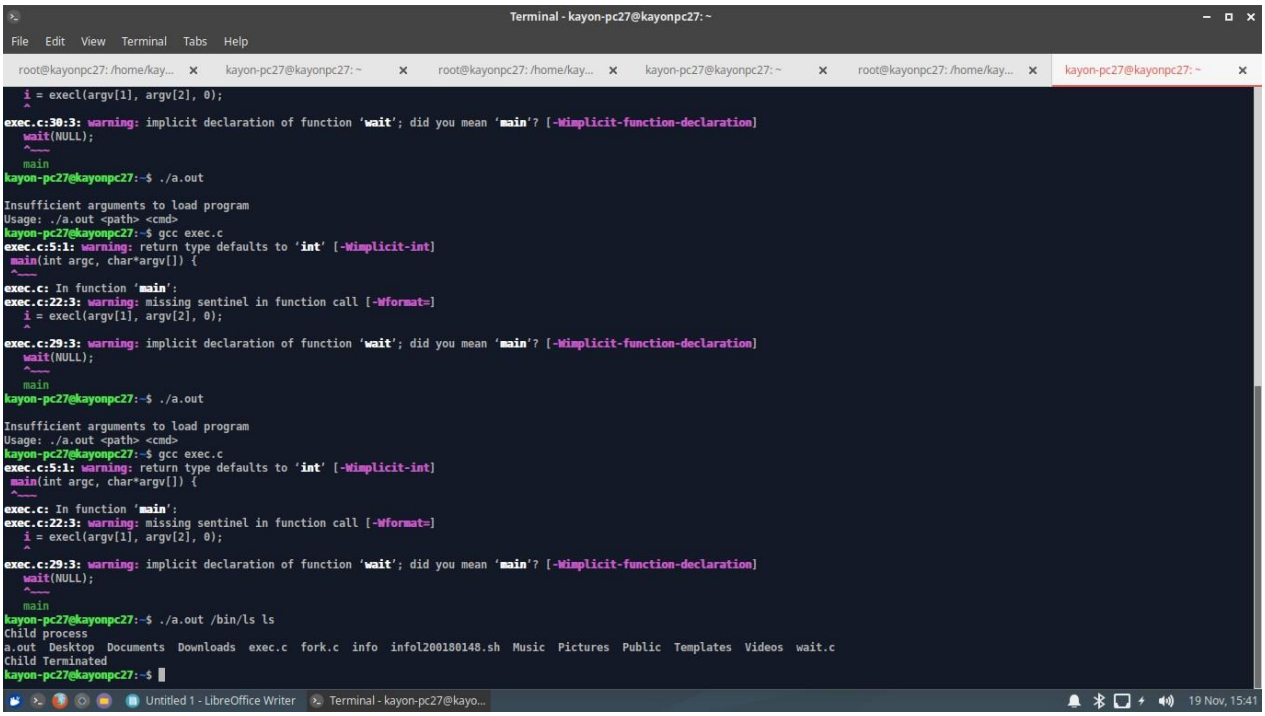
```
Terminal - root@kayonpc27: /home/kayon-pc27
File  Edit  View  Terminal  Tabs  Help
root@kayonpc27: /home/kay...  kayon-pc27@kayonpc27: ~  root@kayonpc27: /home/kay...  kayon-pc27@kayonpc27: ~  root@kayonpc27: /home/kay...  kayon-pc27@kayonpc27: ~
 GNU nano 2.9.3                                  exec.c

#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
#include <stdlib.h>
main(int argc, char*argv[]) {
        pid_t pid;
        int i;

        if (argc != 3)
        {
                printf("\nInsufficient arguments to load program");
                printf("\nUsage: ./a.out <path> <cmd>\n"); exit(-1);
        }

        switch(pid = fork())
        {
        case -1:
                printf("Fork failed");
                exit(-1);
        case 0:
                printf("Child process\n");
                i = execl(argv[1], argv[2], 0);
                if (i < 0)
                {
                        printf("%s program not loaded using exec system call\n", argv[2]);
                        exit(-1);
                }
        default:
                wait(NULL);
                printf("Child Terminated\n");
                exit(0);
        }
}

                                [ Wrote 33 lines ]
^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text  ^J Justify  ^C Cur Pos  M-U Undo  M-A Mark Text  M-] To Bracket  M-↑ Previous  ^B Back
^X Exit      ^R Read File  ^\ Replace   ^U Uncut Text ^T To Spell ^_ Go To Line M-E Redo  M-6 Copy Text  M-W WhereIs Next M-↓ Next  ^F Forward
Untitled 1 - LibreOffice Writer  Terminal - root@kayonpc27: /...  19 Nov, 15:41
```

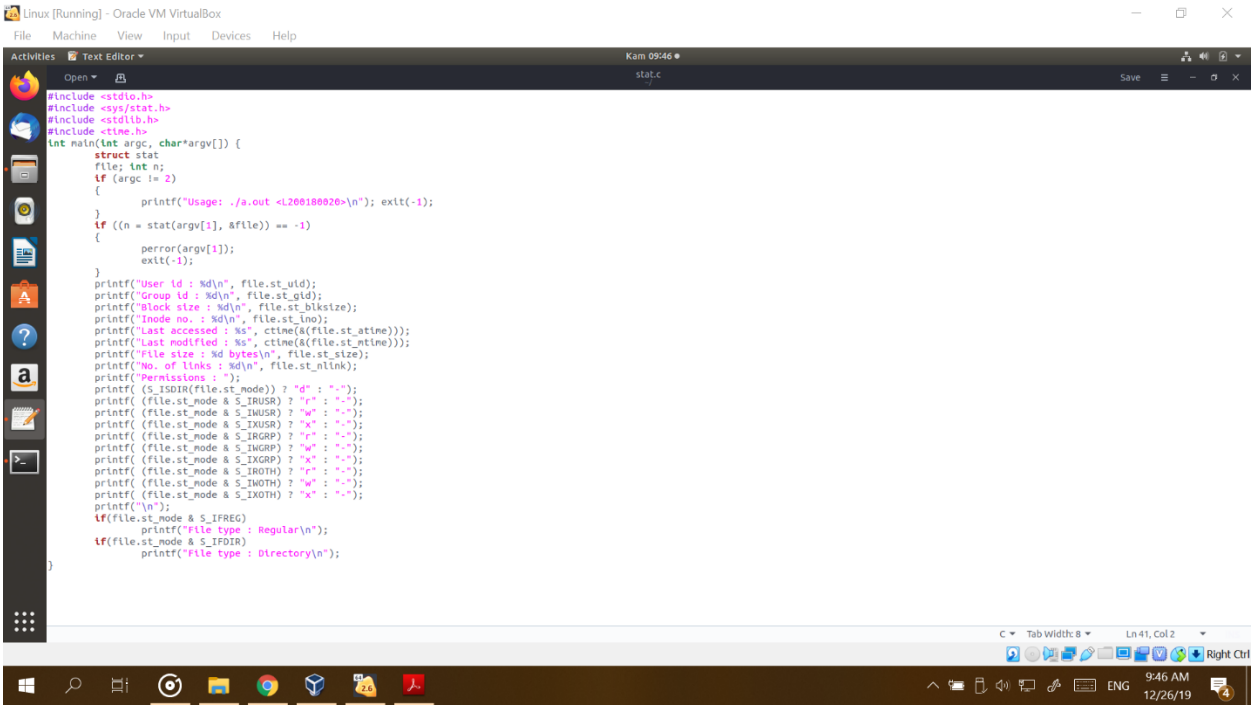


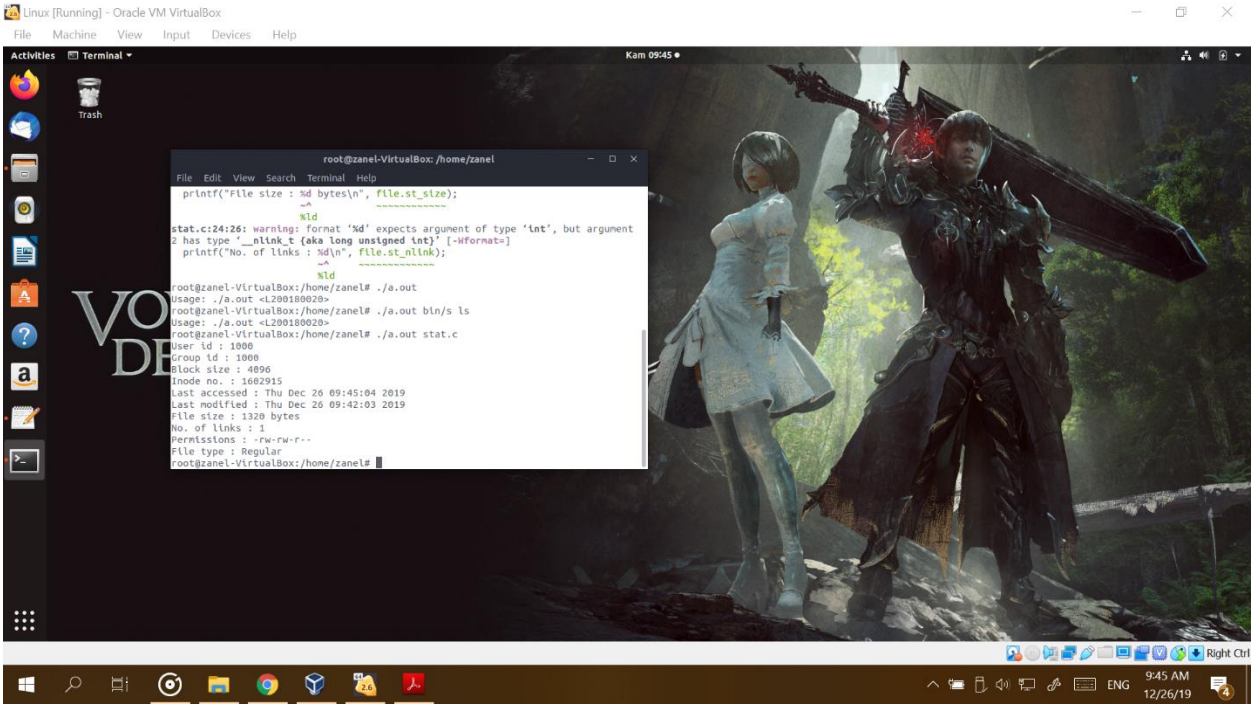
```
Terminal - kayon-pc27@kayonpc27: ~
File  Edit  View  Terminal  Tabs  Help
root@kayonpc27: /home/kay...  kayon-pc27@kayonpc27: ~  root@kayonpc27: /home/kay...  kayon-pc27@kayonpc27: ~  root@kayonpc27: /home/kay...  kayon-pc27@kayonpc27: ~
   i = execl(argv[1], argv[2], 0);
   ^
exec.c:30:3: warning: implicit declaration of function ‘wait’; did you mean ‘main’? [-Wimplicit-function-declaration]
   wait(NULL);
   ^~~~
   main
kayon-pc27@kayonpc27:~$ ./a.out

Insufficient arguments to load program
Usage: ./a.out <path> <cmd>
kayon-pc27@kayonpc27:~$ gcc exec.c
exec.c:5:1: warning: return type defaults to ‘int’ [-Wimplicit-int]
 main(int argc, char*argv[]) {
 ^~~~
exec.c: In function ‘main’:
exec.c:22:3: warning: missing sentinel in function call [-Wformat=]
   i = execl(argv[1], argv[2], 0);
   ^
exec.c:29:3: warning: implicit declaration of function ‘wait’; did you mean ‘main’? [-Wimplicit-function-declaration]
   wait(NULL);
   ^~~~
   main
kayon-pc27@kayonpc27:~$ ./a.out

Insufficient arguments to load program
Usage: ./a.out <path> <cmd>
kayon-pc27@kayonpc27:~$ gcc exec.c
exec.c:5:1: warning: return type defaults to ‘int’ [-Wimplicit-int]
 main(int argc, char*argv[]) {
 ^~~~
exec.c: In function ‘main’:
exec.c:22:3: warning: missing sentinel in function call [-Wformat=]
   i = execl(argv[1], argv[2], 0);
   ^
exec.c:29:3: warning: implicit declaration of function ‘wait’; did you mean ‘main’? [-Wimplicit-function-declaration]
   wait(NULL);
   ^~~~
   main
kayon-pc27@kayonpc27:~$ ./a.out /bin/ls ls
Child process
a.out  Desktop  Documents  Downloads  exec.c  fork.c  info  infol200180148.sh  Music  Pictures  Public  Templates  Videos  wait.c
Child Terminated
kayon-pc27@kayonpc27:~$
Untitled 1 - LibreOffice Writer  Terminal - kayon-pc27@kayo...  19 Nov, 15:41
```

Kode program stat.c





Kode program dirlist.c