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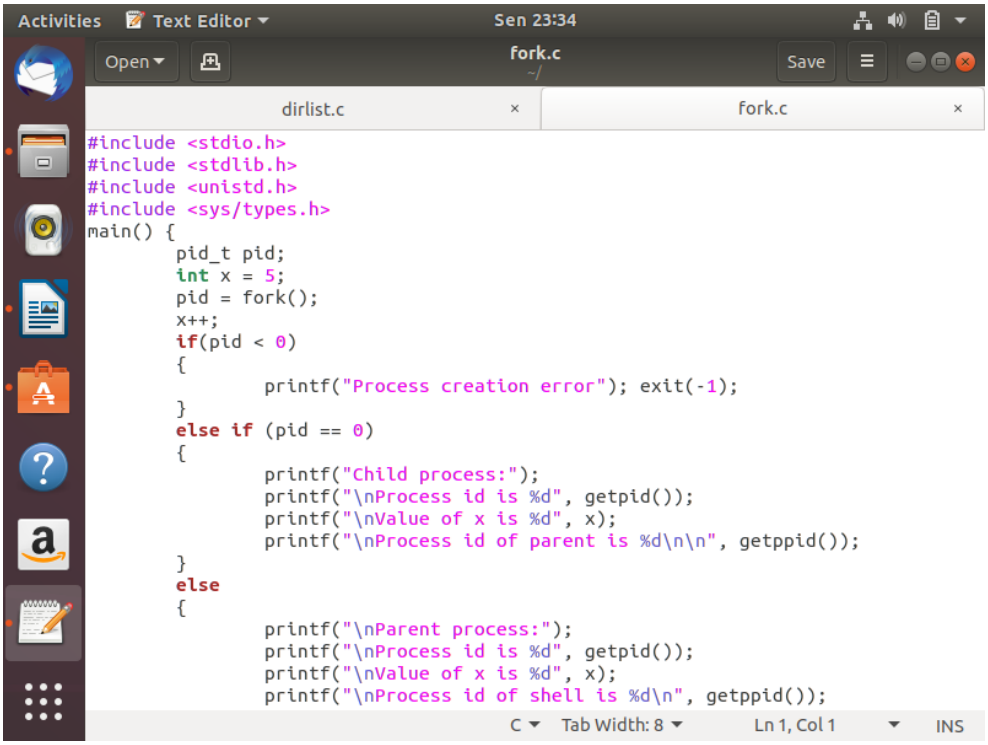
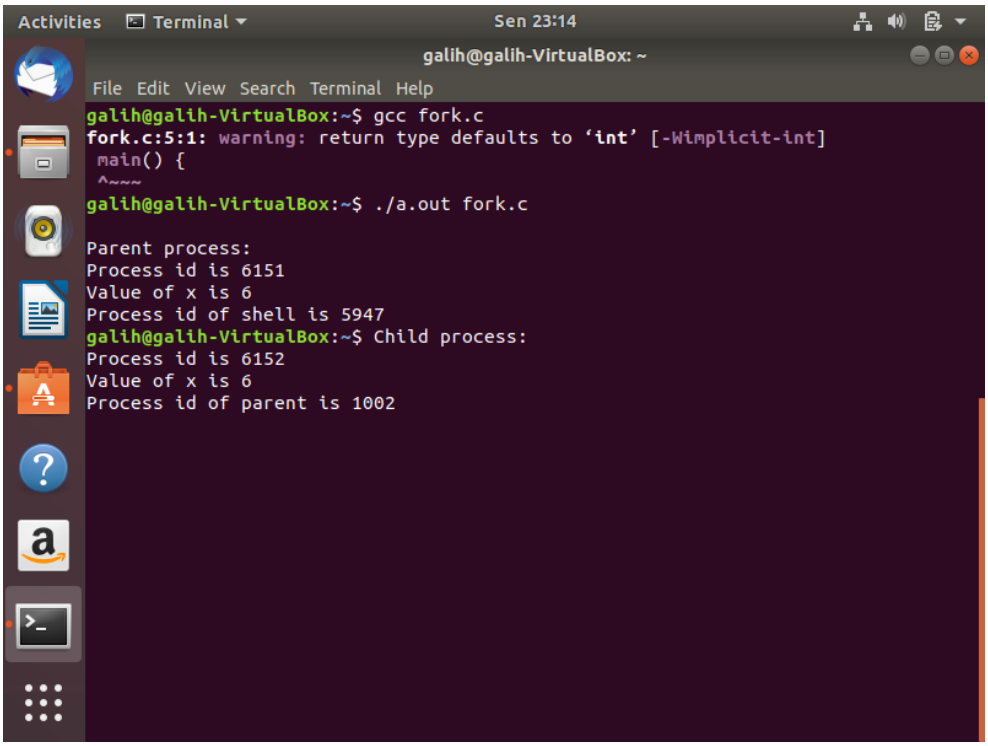
NIM : L20018000

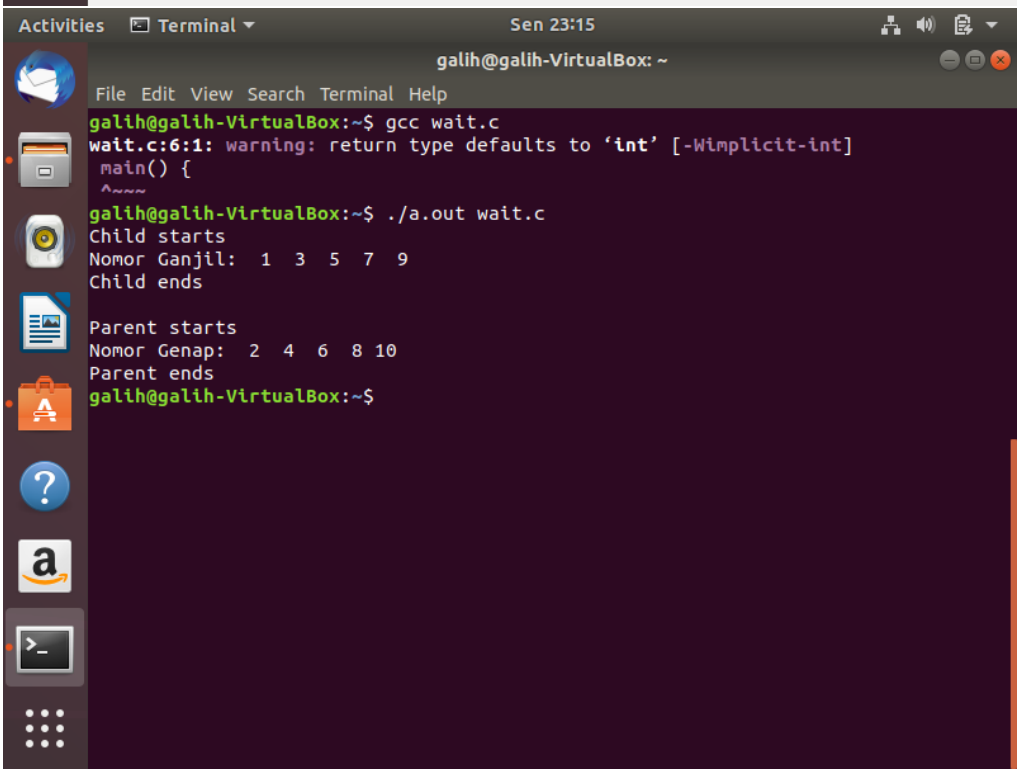
1. Fork.c



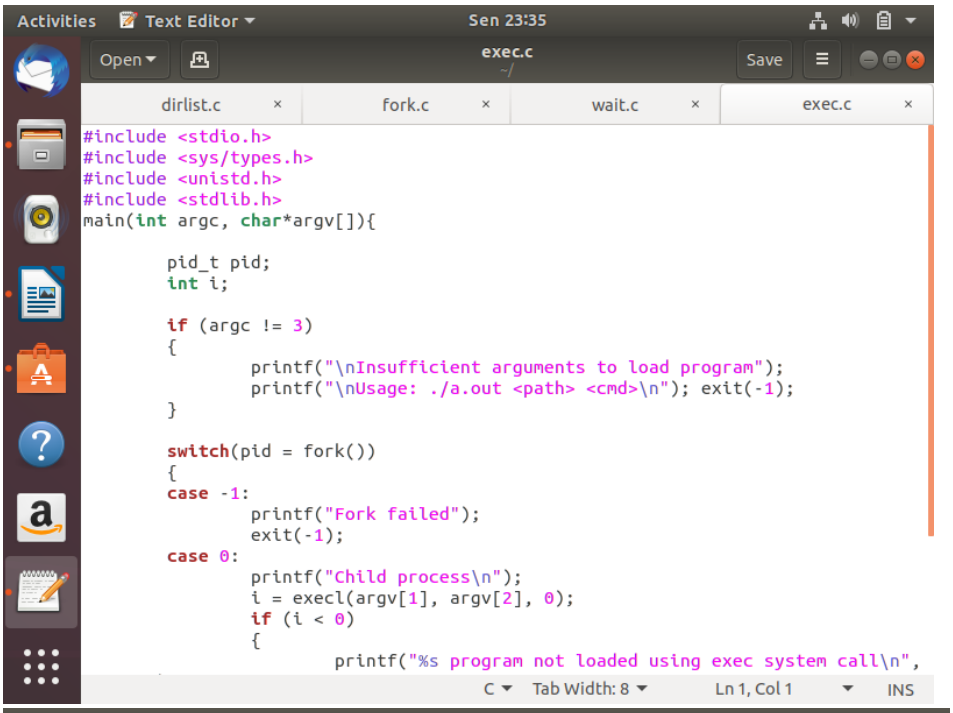


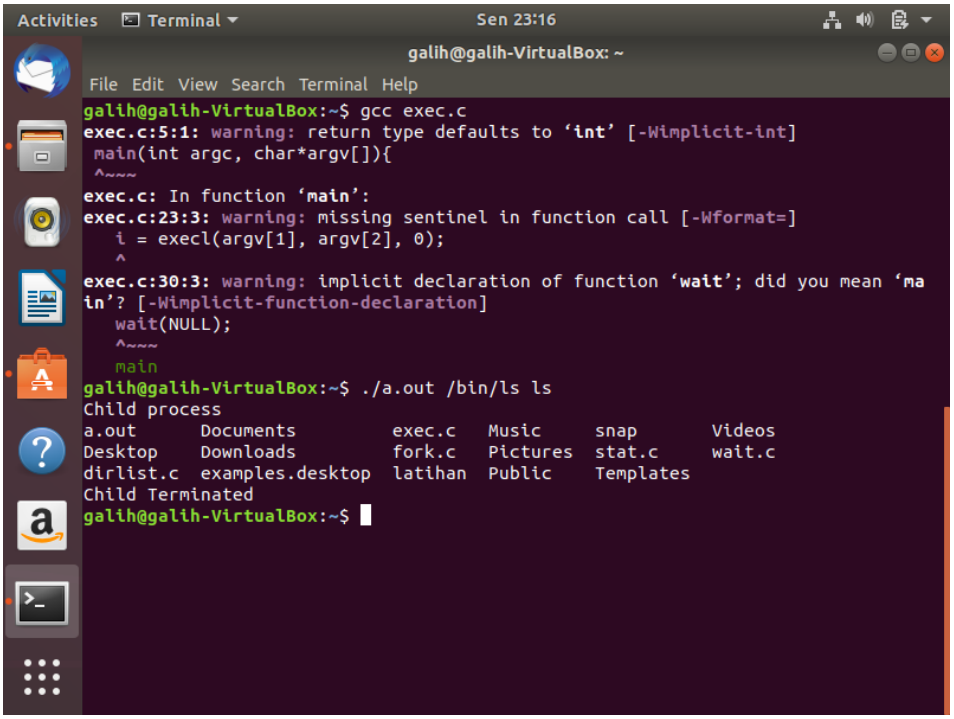
2. Wait.c


Activities
Text Editor
Sen 23:34
Open
wait.c
~/
Save
dirlist.c
fork.c
wait.c
#include <sys/wait.h>
main() {
int i, status;
pid_t pid;
pid = fork();
if (pid < 0) {
printf("\nPembuatan proses gagal\n");
exit(-1);
}
else if(pid >0)
{
wait(NULL);
printf ("\nParent starts \nNomor Genap:");
for (i=2;i<=10;i+=2)
printf ("%3d",i);
printf("\nParent ends\n");
}
else if (pid == 0)
{
printf("Child starts\nNomor Ganjil:");
for (i=1;i<10;i+=2)
printf("%3d",i);
printf ("\nChild ends\n");
}
}
C
Tab Width: 8
Ln 1, Col 1
INS

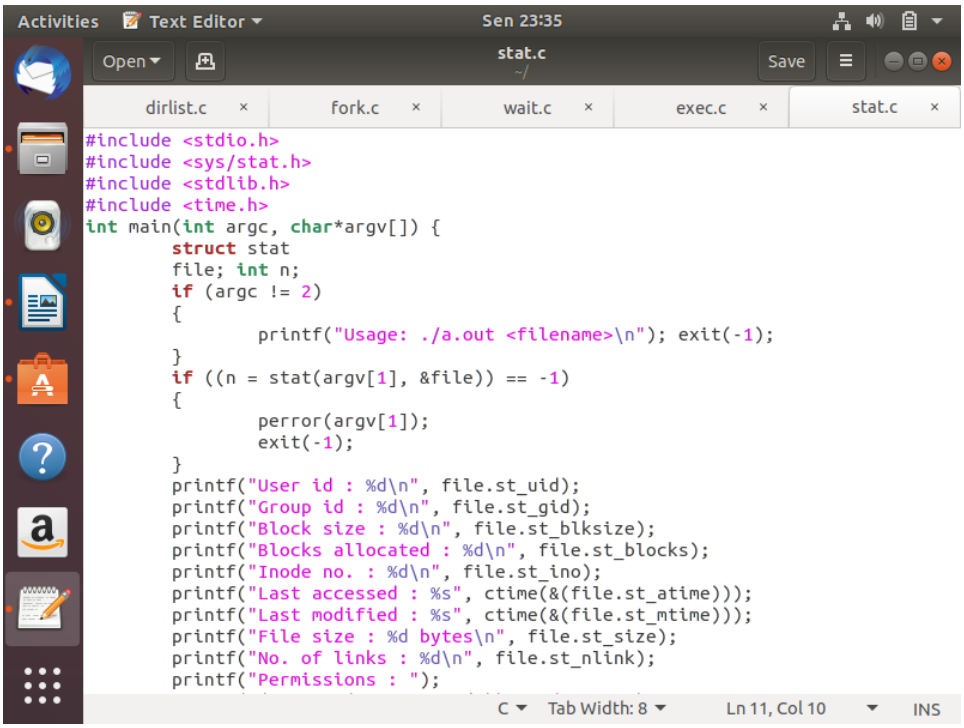

Activities
Terminal
Sen 23:15
galih@galih-VirtualBox: ~
File Edit View Search Terminal Help
galih@galih-VirtualBox:~$ gcc wait.c
wait.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
main() {
^~~~
galih@galih-VirtualBox:~$ ./a.out wait.c
Child starts
Nomor Ganjil: 1 3 5 7 9
Child ends
Parent starts
Nomor Genap: 2 4 6 8 10
Parent ends
galih@galih-VirtualBox:~$

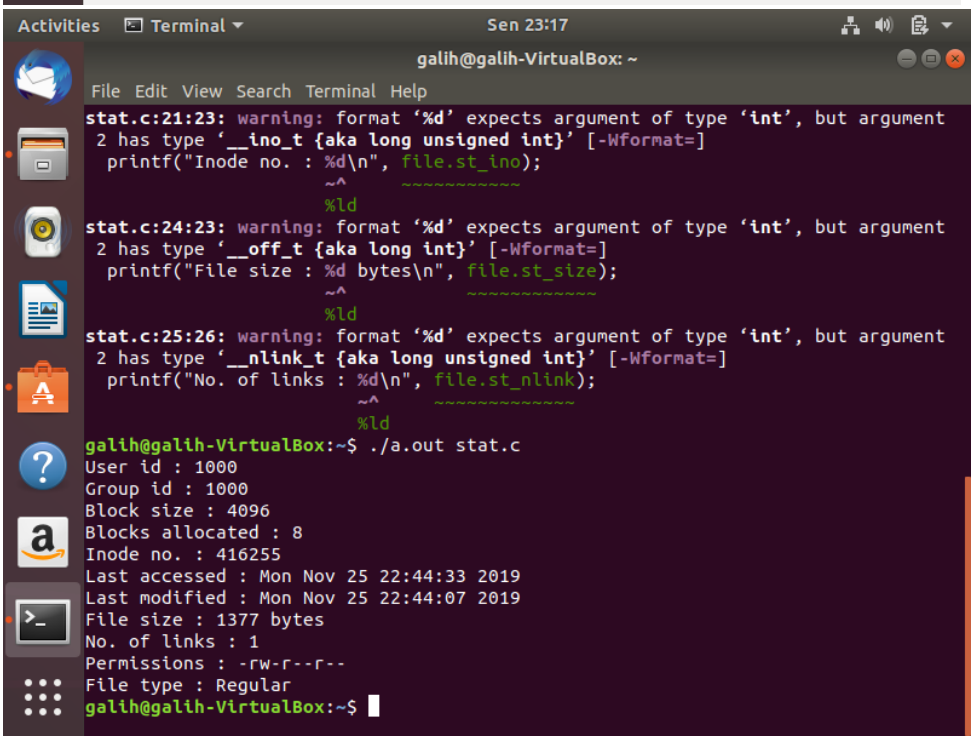
3. Exec.c


Activities
Text Editor
Sen 23:35
Open
exec.c
~/
Save
dirlist.c
fork.c
wait.c
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",
C
Tab Width: 8
Ln 1, Col 1
INS

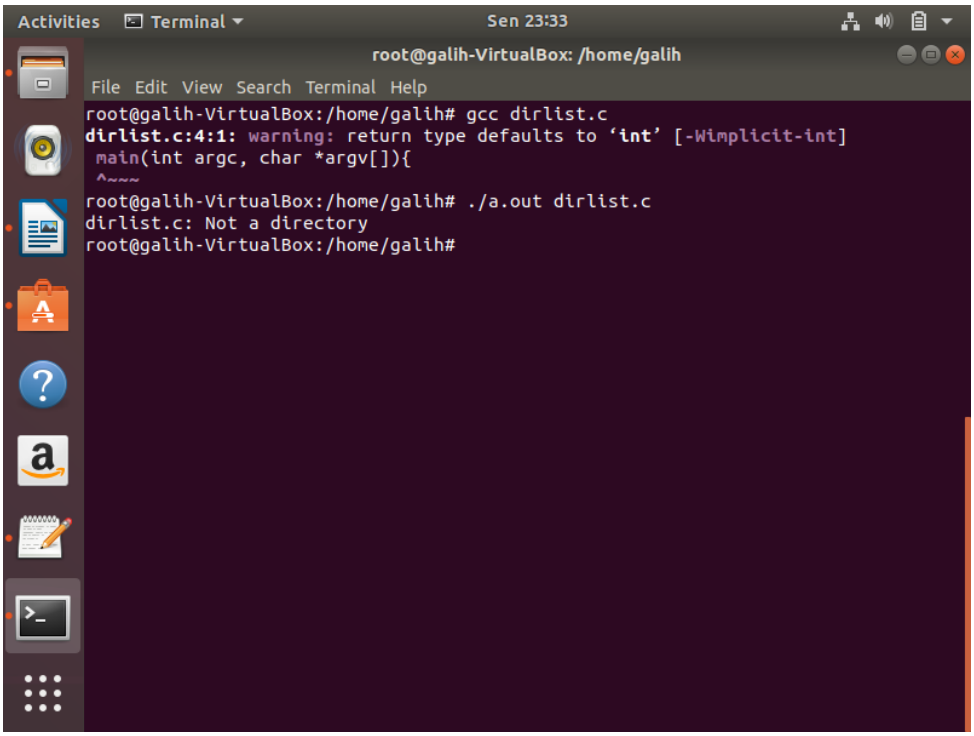

Activities
Terminal
Sen 23:16
galih@galih-VirtualBox: ~
File Edit View Search Terminal Help
galih@galih-VirtualBox:~$ gcc exec.c
exec.c:5:1: warning: return type defaults to ‘int’ [-Wimplicit-int]
main(int argc, char*argv[]){
^~~~
exec.c: In function ‘main’:
exec.c:23:3: warning: missing sentinel in function call [-Wformat=]
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
galih@galih-VirtualBox:~$ ./a.out /bin/ls ls
Child process
a.out Documents exec.c Music snap Videos
Desktop Downloads fork.c Pictures stat.c wait.c
dirlist.c examples.desktop latihan Public Templates
Child Terminated
galih@galih-VirtualBox:~$

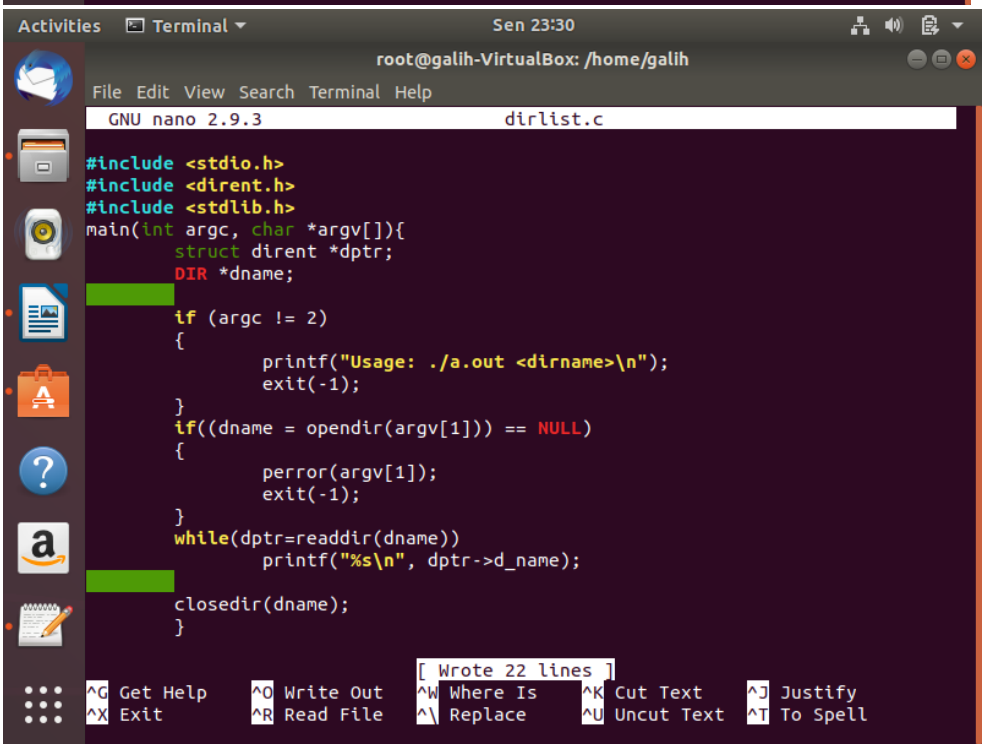
4. Stat.c


Activities
Text Editor
Sen 23:35
Open
stat.c
~/
Save
dirlist.c
fork.c
wait.c
exec.c
stat.c
#include <stdio.h>
#include <sys/stat.h>
#include <stdlib.h>
#include <time.h>
int main(int argc, char*argv[]) {
struct stat
file; int n;
if (argc != 2)
{
printf("Usage: ./a.out <filename>\n"); exit(-1);
}
if ((n = stat(argv[1], &file)) == -1)
{
perror(argv[1]);
exit(-1);
}
printf("User id : %d\n", file.st_uid);
printf("Group id : %d\n", file.st_gid);
printf("Block size : %d\n", file.st_blksize);
printf("Blocks allocated : %d\n", file.st_blocks);
printf("Inode no. : %d\n", file.st_ino);
printf("Last accessed : %s", ctime(&(file.st_atime)));
printf("Last modified : %s", ctime(&(file.st_mtime)));
printf("File size : %d bytes\n", file.st_size);
printf("No. of links : %d\n", file.st_nlink);
printf("Permissions : ");
C
Tab Width: 8
Ln 11, Col 10
INS


Activities
Terminal
Sen 23:17
galih@galih-VirtualBox: ~
File Edit View Search Terminal Help
stat.c:21:23: warning: format '%d' expects argument of type 'int', but argument 2 has type '__ino_t {aka long unsigned int}' [-Wformat=]
printf("Inode no. : %d\n", file.st_ino);
%ld
stat.c:24:23: warning: format '%d' expects argument of type 'int', but argument 2 has type '__off_t {aka long int}' [-Wformat=]
printf("File size : %d bytes\n", file.st_size);
%ld
stat.c:25:26: warning: format '%d' expects argument of type 'int', but argument 2 has type '__nlink_t {aka long unsigned int}' [-Wformat=]
printf("No. of links : %d\n", file.st_nlink);
%ld
galih@galih-VirtualBox:~$ ./a.out stat.c
User id : 1000
Group id : 1000
Block size : 4096
Blocks allocated : 8
Inode no. : 416255
Last accessed : Mon Nov 25 22:44:33 2019
Last modified : Mon Nov 25 22:44:07 2019
File size : 1377 bytes
No. of links : 1
Permissions : -rw-r--r--
File type : Regular
galih@galih-VirtualBox:~$

5. Dirlist.c


Activities
Terminal
Sen 23:33
root@galih-VirtualBox: /home/galih
File Edit View Search Terminal Help
root@galih-VirtualBox:/home/galih# gcc dirlist.c
dirlist.c:4:1: warning: return type defaults to ‘int’ [-Wimplicit-int]
main(int argc, char *argv[]){
^~~~
root@galih-VirtualBox:/home/galih# ./a.out dirlist.c
dirlist.c: Not a directory
root@galih-VirtualBox:/home/galih#


Activities
Terminal
Sen 23:30
root@galih-VirtualBox: /home/galih
File Edit View Search Terminal Help
GNU nano 2.9.3 dirlist.c
#include <stdio.h>
#include <dirent.h>
#include <stdlib.h>
main(int argc, char *argv[]){
struct dirent *dptr;
DIR *dname;
if (argc != 2)
{
printf("Usage: ./a.out <dirname>\n");
exit(-1);
}
if((dname = opendir(argv[1])) == NULL)
{
perror(argv[1]);
exit(-1);
}
while(dptr=readdir(dname))
printf("%s\n", dptr->d_name);
closedir(dname);
}
[Wrote 22 lines]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell