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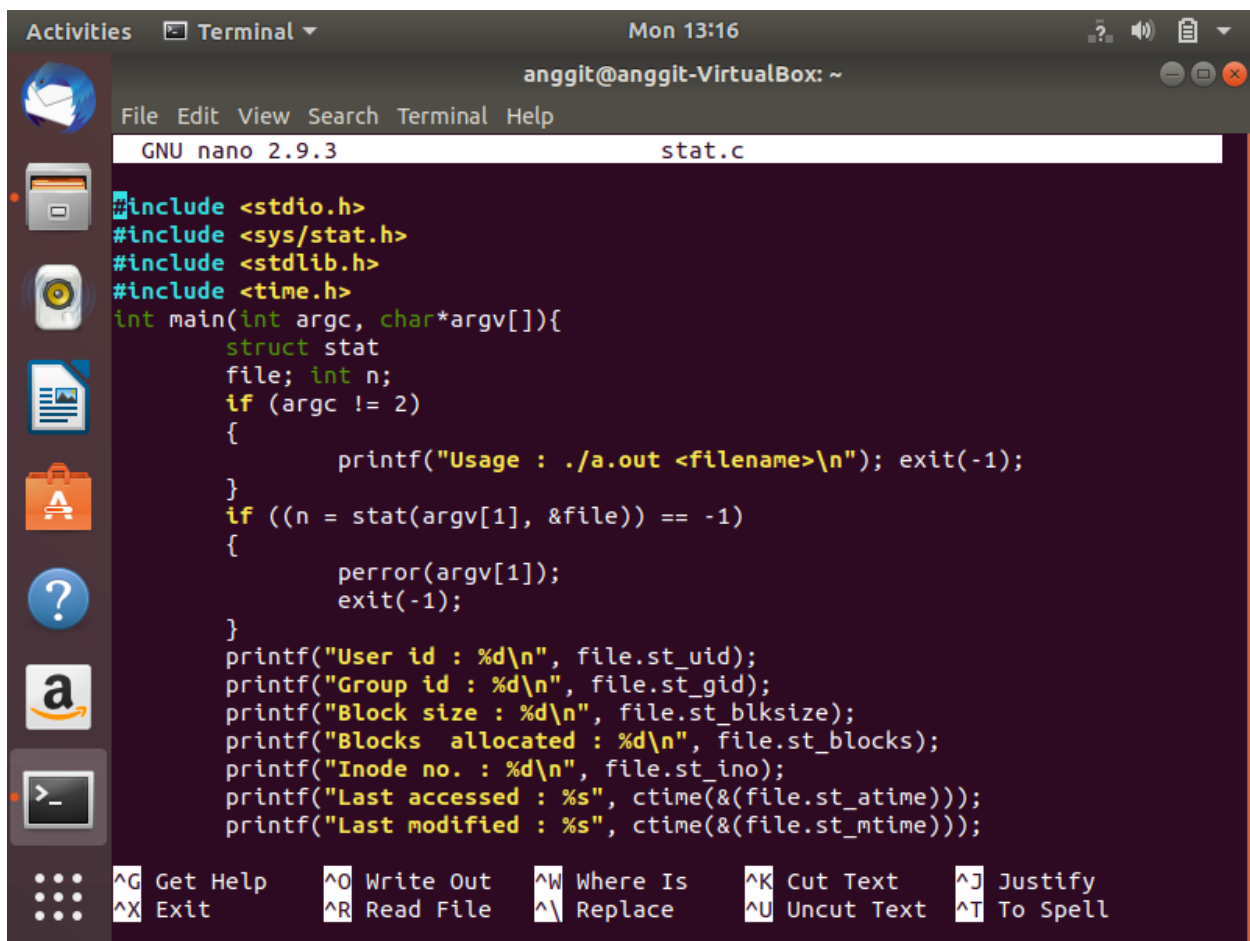
NIM : L200180111

Kelas : C

## MODUL 8

Nomor 4 : stat.c

Source code



The screenshot shows a terminal window titled "anggit@anggit-VirtualBox: ~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Mon 13:16). The editor is GNU nano 2.9.3, editing stat.c. The code is as follows:

```
#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)));
}
```

The bottom of the terminal shows a grid of keyboard shortcuts: ^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.

Activities Terminal Mon 13:17 anggit@anggit-VirtualBox: ~

File Edit View Search Terminal Help

GNU nano 2.9.3 stat.c

```
{
    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("Permission : ");
printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
printf( (file.st_mode & S_IRUSR) ? "r" : "-");
printf( (file.st_mode & S_IWUSR) ? "w" : "-");
printf( (file.st_mode & S_IXUSR) ? "x" : "-");
printf( (file.st_mode & S_IRGRP) ? "r" : "-");
printf( (file.st_mode & S_IWGRP) ? "w" : "-");
printf( (file.st_mode & S_IXGRP) ? "x" : "-");
printf( (file.st_mode & S_IROTH) ? "r" : "-");
printf( (file.st_mode & S_IWOTH) ? "w" : "-");
```

Get Help Write Out Where Is Cut Text Justify  
Exit Read File Replace Uncut Text To Spell

Activities Terminal Mon 13:17 anggit@anggit-VirtualBox: ~

File Edit View Search Terminal Help

GNU nano 2.9.3 stat.c

```
printf("No. of links : %d\n", file.st_nlink);
printf("Permission : ");
printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
printf( (file.st_mode & S_IRUSR) ? "r" : "-");
printf( (file.st_mode & S_IWUSR) ? "w" : "-");
printf( (file.st_mode & S_IXUSR) ? "x" : "-");
printf( (file.st_mode & S_IRGRP) ? "r" : "-");
printf( (file.st_mode & S_IWGRP) ? "w" : "-");
printf( (file.st_mode & S_IXGRP) ? "x" : "-");
printf( (file.st_mode & S_IROTH) ? "r" : "-");
printf( (file.st_mode & S_IWOTH) ? "w" : "-");
printf( (file.st_mode & S_IXOTH) ? "x" : "-");
printf("\n");
if(file.st_mode & S_IFREG)
    printf("File type : Regular\n");
if(file.st_mode & S_IFDIR)
    printf("File type : Directory\n");
}
```

Get Help Write Out Where Is Cut Text Justify  
Exit Read File Replace Uncut Text To Spell

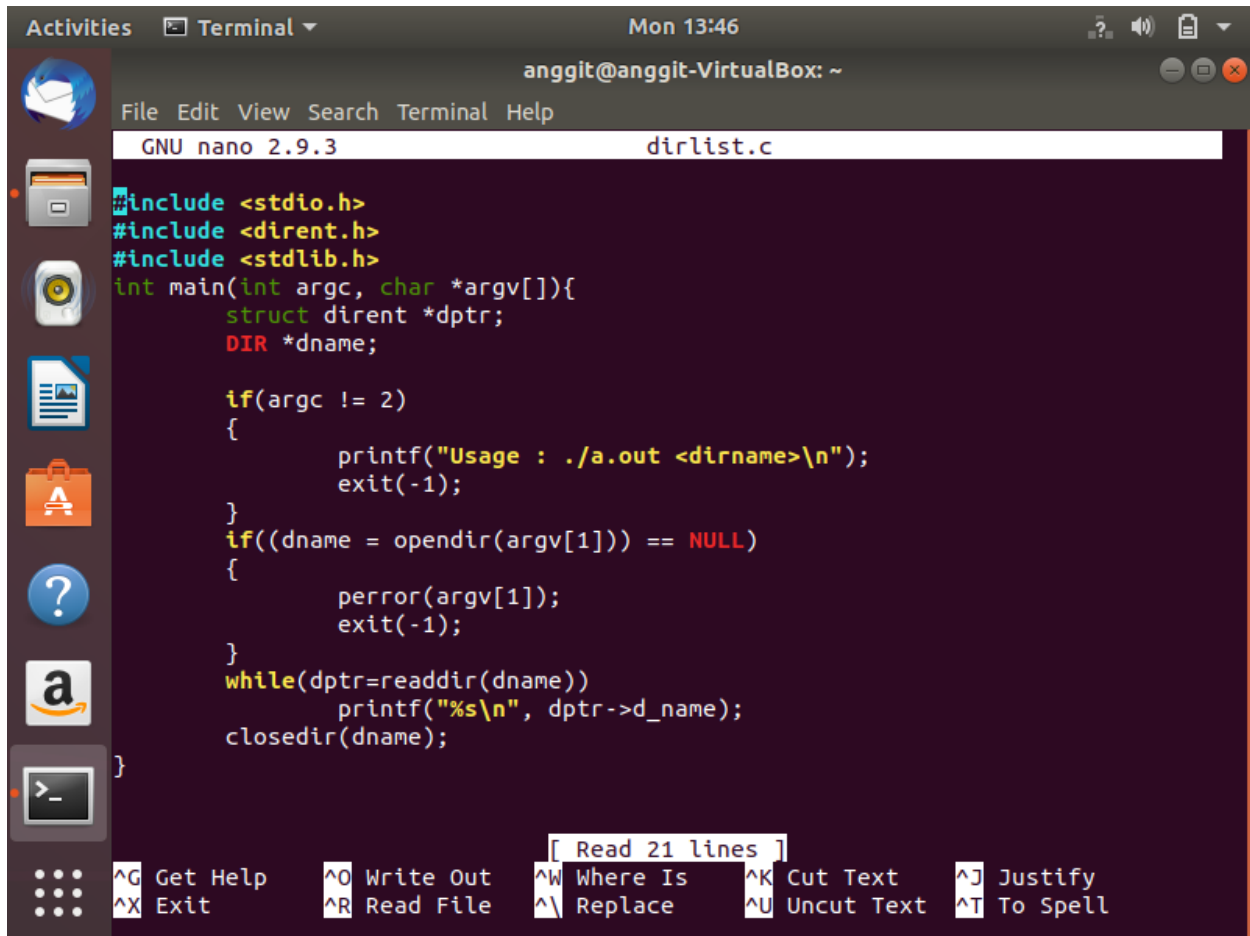
## Tampilan stat.c

```
Activities Terminal Mon 13:22
anggit@anggit-VirtualBox: ~
File Edit View Search Terminal Help
anggit@anggit-VirtualBox:~$ nano stat.c
anggit@anggit-VirtualBox:~$ gcc stat.c
stat.c: In function 'main':
stat.c:19:24: warning: format '%d' expects argument of type 'int', but argument
2 has type '__blksize_t {aka long int}' [-Wformat=]
printf("Block size : %d\n", file.st_blksize);
~^
~^
~^
~^
~^
~^
stat.c:20:31: warning: format '%d' expects argument of type 'int', but argument
2 has type '__blkcnt_t {aka long int}' [-Wformat=]
printf("Blocks allocated : %d\n", file.st_blocks);
~^
~^
~^
~^
~^
~^
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);
~^
~^
~^
~^
~^
~^
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);
~^
~^
~^
~^
~^
~^
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);
~^
~^
~^
~^
~^
~^
anggit@anggit-VirtualBox:~$ ./a.out stat.c
```

```
Activities Terminal Mon 13:22
anggit@anggit-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);
~^
~^
~^
~^
~^
~^
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);
~^
~^
~^
~^
~^
~^
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);
~^
~^
~^
~^
~^
~^
anggit@anggit-VirtualBox:~$ ./a.out stat.c
User id : 1000
Group id : 1000
Block size : 4096
Blocks allocated : 8
Inode no. : 148035
Last accessed : Mon Nov 18 13:09:16 2019
Last modified : Mon Nov 18 13:08:32 2019
File size : 1370 bytes
No. of links : 1
Permission : -rw-r--r--
File type : Regular
anggit@anggit-VirtualBox:~$
```

## Nomor 5 : dirlist.c

Source code



The screenshot shows a terminal window titled "anggit@anggit-VirtualBox: ~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a status bar (Mon 13:46). The editor is GNU nano 2.9.3, editing the file dirlist.c. The code is as follows:

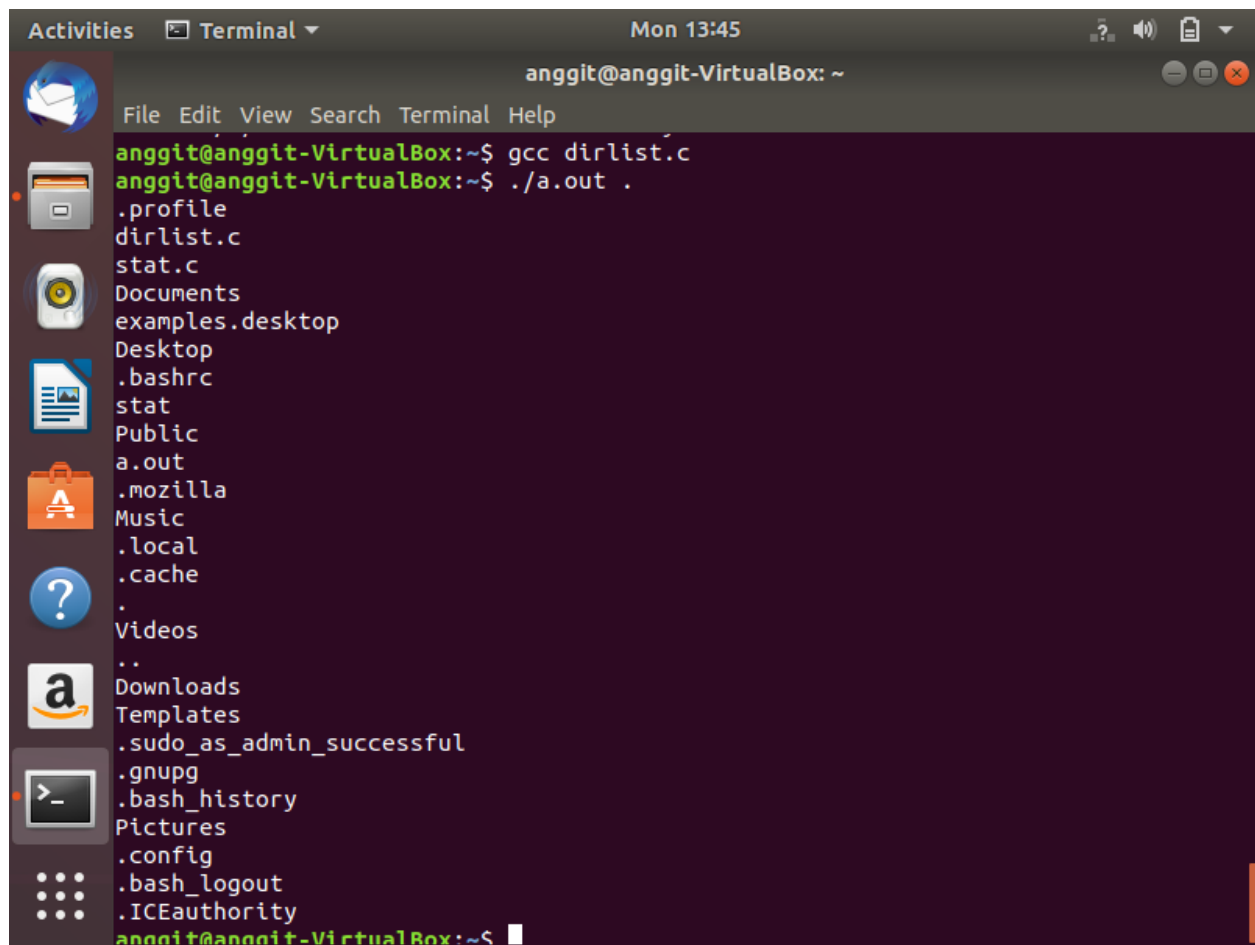
```
#include <stdio.h>
#include <dirent.h>
#include <stdlib.h>
int main(int argc, char *argv[]){
    struct dirent *dptr;
    DIR *dname;

    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);
}
```

At the bottom, a status bar shows "[ Read 21 lines ]" and a table of keyboard shortcuts:

^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

## Tampilan dirlist.c



The image shows a terminal window titled "anggit@anggit-VirtualBox: ~" with a menu bar (File, Edit, View, Search, Terminal, Help) and a sidebar with application icons. The terminal displays the following commands and output:

```
anggit@anggit-VirtualBox:~$ gcc dirlist.c
anggit@anggit-VirtualBox:~$ ./a.out .
.profile
dirlist.c
stat.c
Documents
examples.desktop
Desktop
.bashrc
stat
Public
a.out
.mozilla
Music
.local
.cache
.
Videos
..
Downloads
Templates
.sudo_as_admin_successful
.gnupg
.bash_history
Pictures
.config
.bash_logout
.ICEauthority
anggit@anggit-VirtualBox:~$
```