

Nama : Vintan Kirana

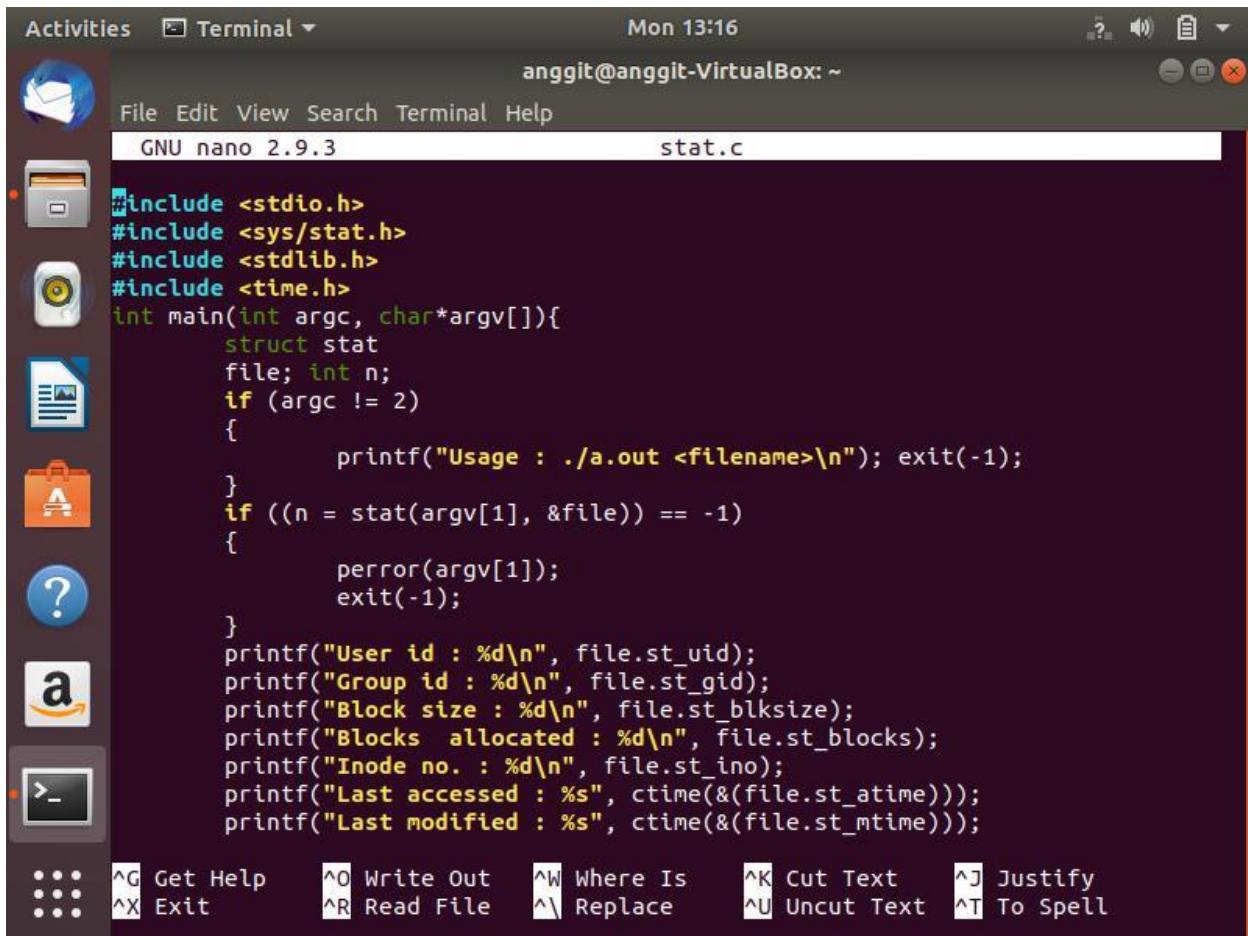
NIM : L200180144

Kelas : C

MODUL 8

Nomor 4 : stat.c

Source code



```
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)));


^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" : "-");
```

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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");}
```

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify
^X Exit ^R Read File ^A Replace ^U Uncut Text ^I To Spell

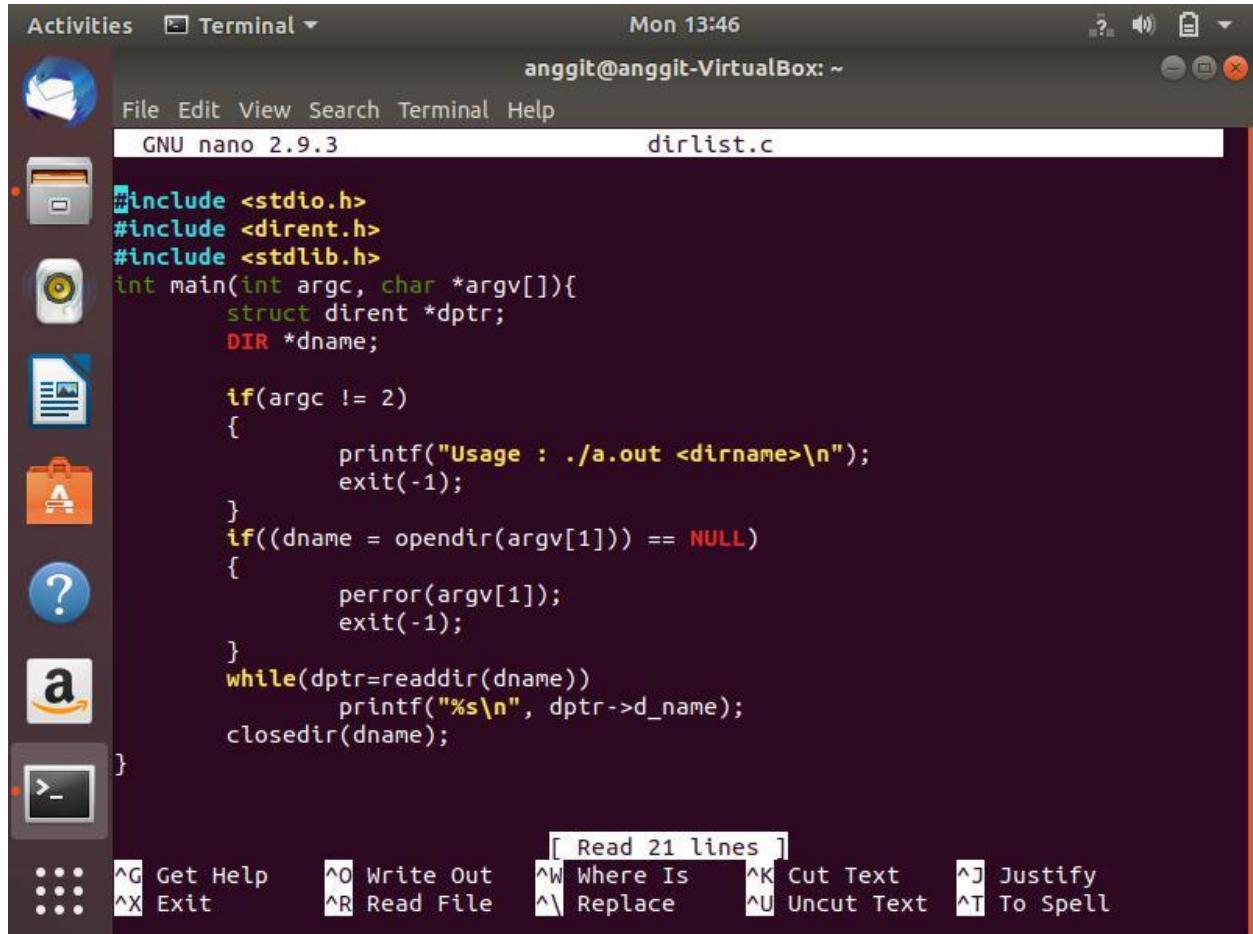
Tampilan stat.c

```
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);  
          ~^  
          ~~~~~~  
          %ld  
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);  
          ~^  
          ~~~~~~  
          %ld  
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  
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);  
          ~^  
          ~~~~~~  
          %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  
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



```
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);
}

[ Read 21 lines ]
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^X Exit       ^R Read File   ^\ Replace     ^U Uncut Text  ^T To Spell
```

Tampilan dirlist.c

A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window titled "Terminal". The terminal window has a dark background and displays the following text:

```
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
```

The terminal window is positioned over a desktop background that shows various icons for applications like Mail, Files, Dash, and Help.