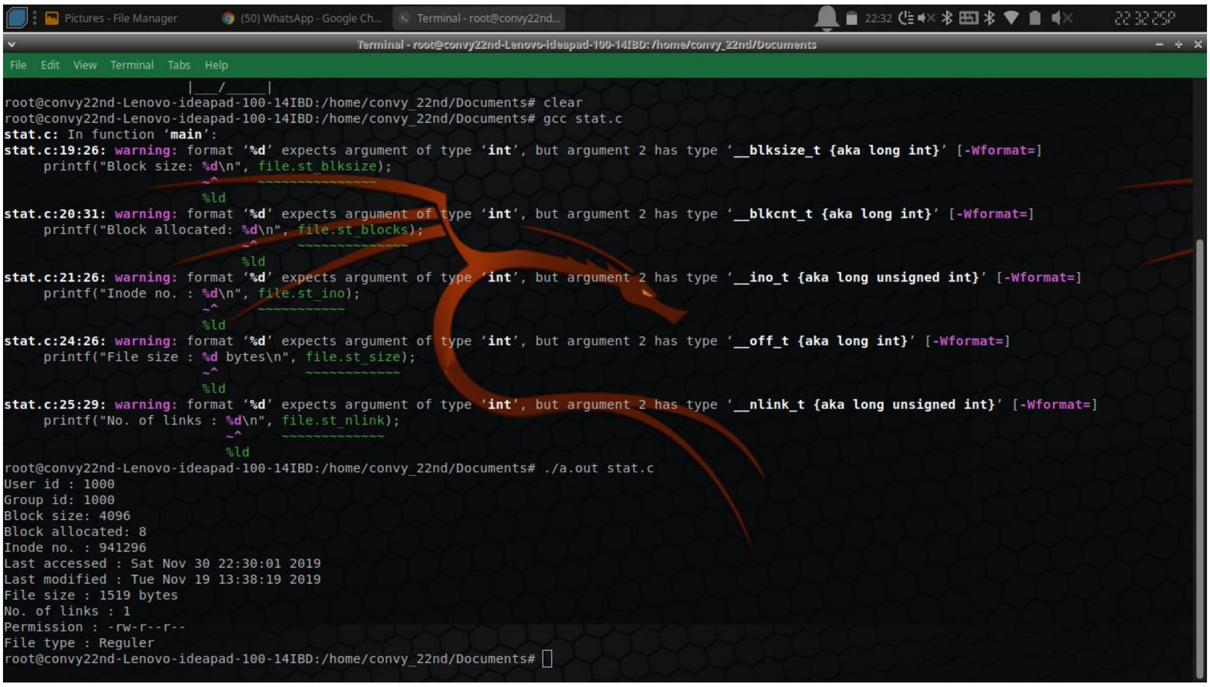
Nama    : Rohmad Khoirudin
NIM      : L200180101
Kelas    : C

# MODUL 8

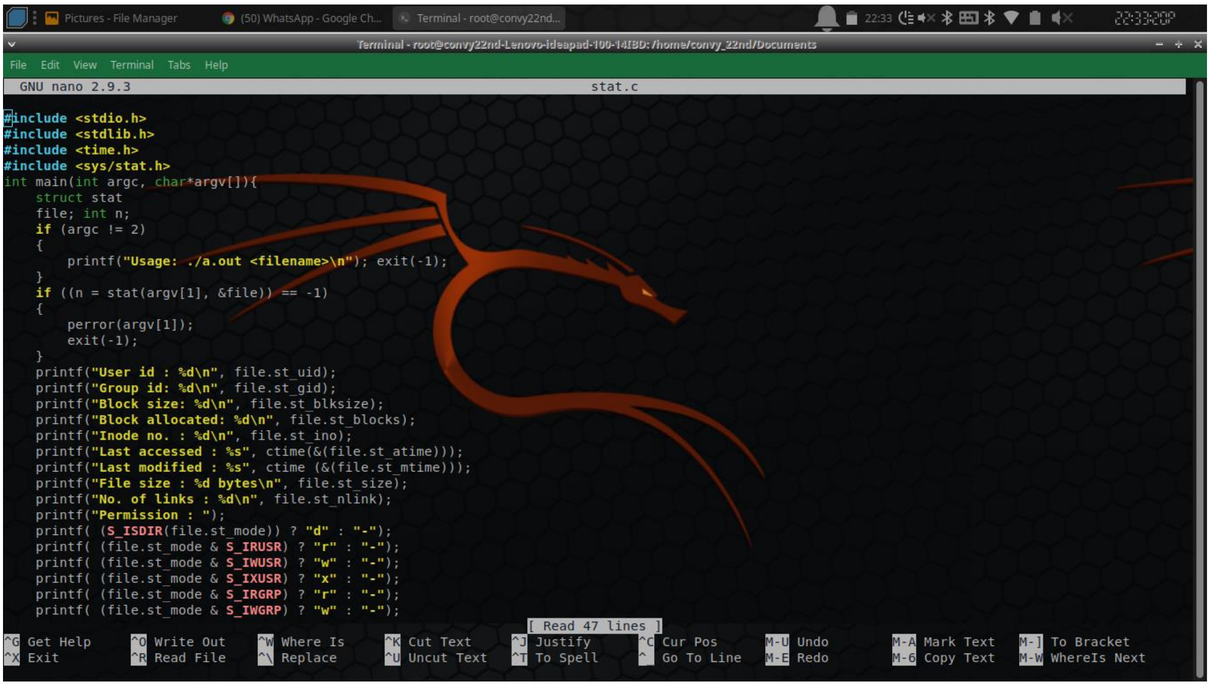
## Stat.c



Pictures - File Manager
(50) WhatsApp - Google Ch...
Terminal - root@convy22nd...
22:32
Terminal - root@convy22nd-Lenovo-ideapad-100-14IBD: /home/convy_22nd/Documents
File
Edit
View
Terminal
Tabs
Help

```
                        |___/_____|
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# clear
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# gcc stat.c
stat.c: In function ‘main’:
stat.c:19:26: 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("Block allocated: %d\n", file.st_blocks);
                              ~^     ~~~~~~~~~~~~~~
                              %ld
stat.c:21:26: 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:24:26: 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:25:29: 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
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# ./a.out stat.c
User id : 1000
Group id: 1000
Block size: 4096
Block allocated: 8
Inode no. : 941296
Last accessed : Sat Nov 30 22:30:01 2019
Last modified : Tue Nov 19 13:38:19 2019
File size : 1519 bytes
No. of links : 1
Permission : -rw-r--r--
File type : Reguler
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# 
```

## Source code stat.c



Pictures - File Manager
(50) WhatsApp - Google Ch...
Terminal - root@convy22nd...
22:33
Terminal - root@convy22nd-Lenovo-ideapad-100-14IBD: /home/convy_22nd/Documents
File
Edit
View
Terminal
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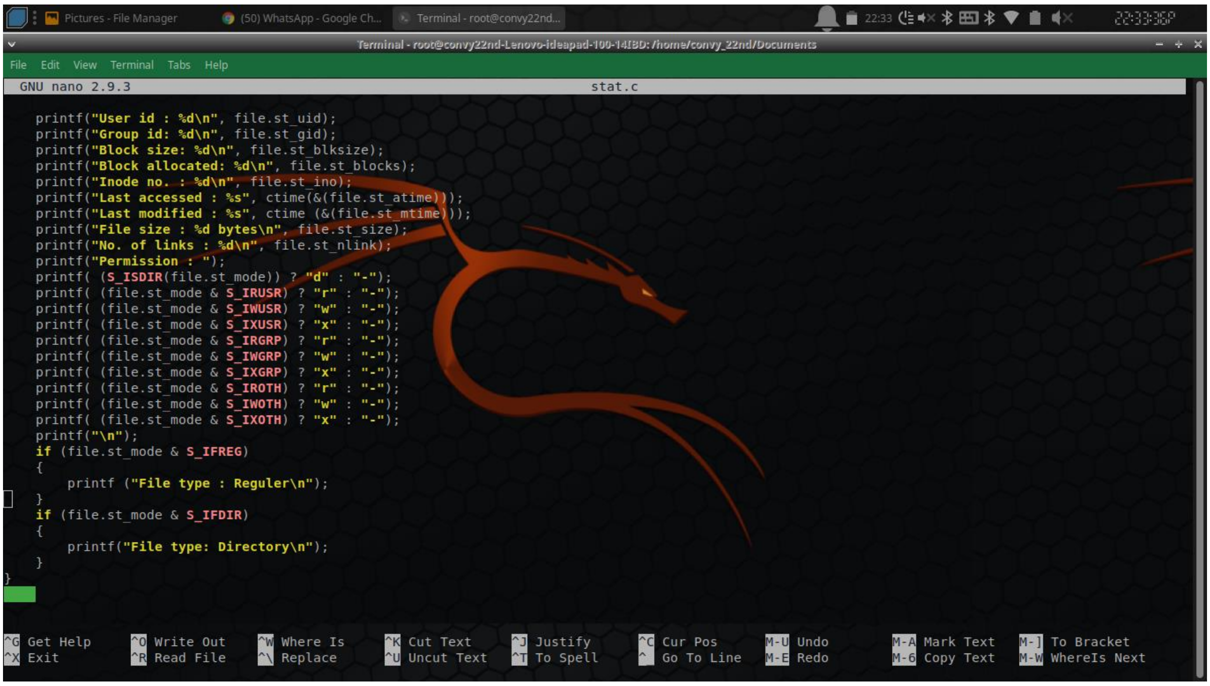
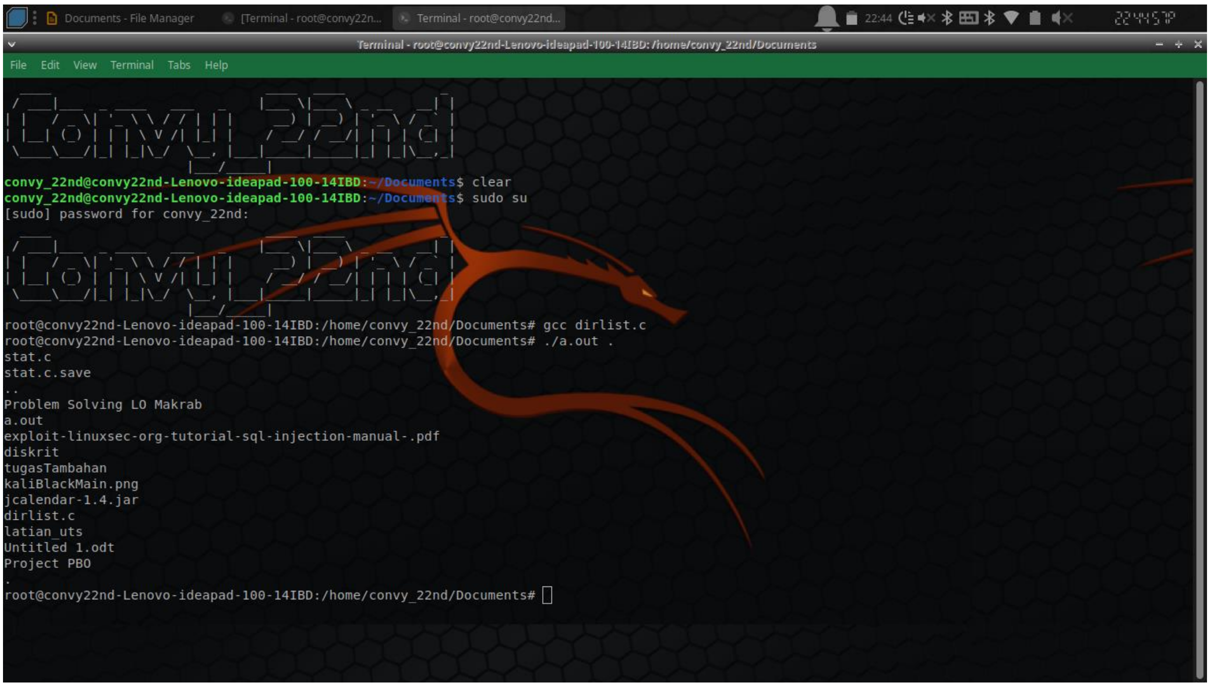
Help
GNU nano 2.9.3
stat.c

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
#include <sys/stat.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("Block 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" : "-");
                                                         [ Read 47 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
^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
```


Pictures - File Manager
(50) WhatsApp - Google Ch...
Terminal - root@convy22nd...
22:33
Terminal - root@convy22nd-Lenovo-ideapad-100-14IBD: /home/convy_22nd/Documents
File Edit View Terminal Tabs Help

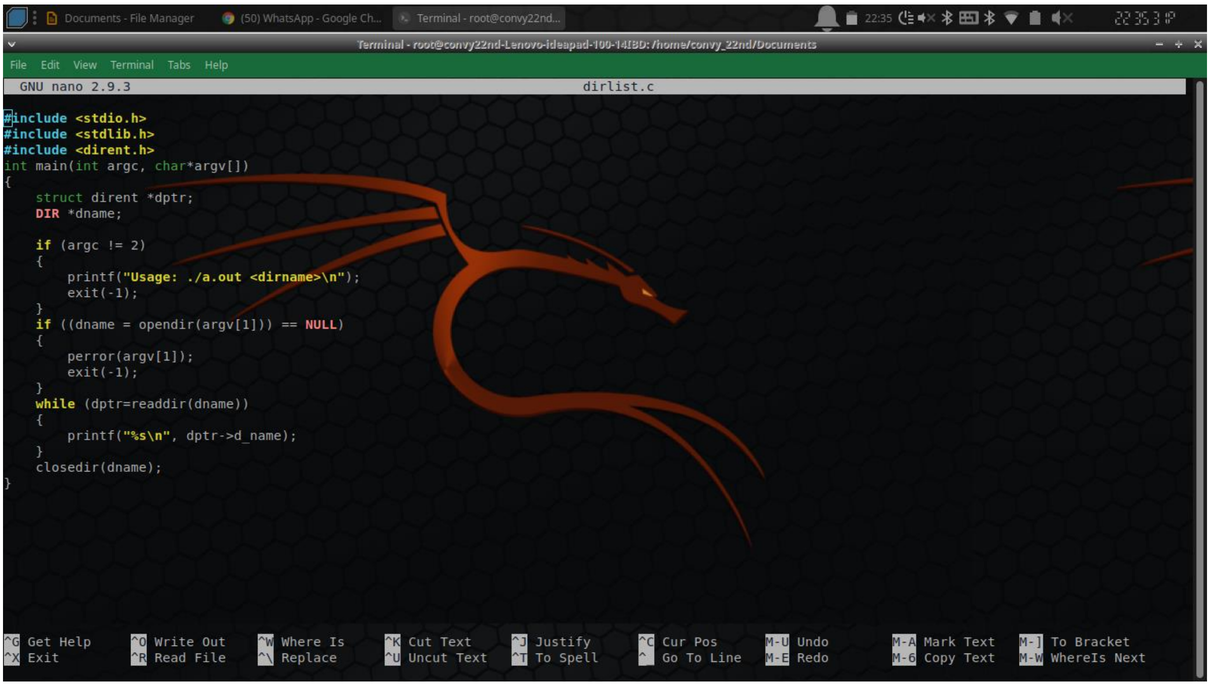
```
  GNU nano 2.9.3                                              stat.c

    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("Block 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" : "-");
    printf( (file.st_mode & S_IXOTH) ? "x" : "-");
    printf("\n");
    if (file.st_mode & S_IFREG)
    {
        printf ("File type : Reguler\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     ^C Cur Pos     M-U Undo       M-A Mark Text  M-] To Bracket
^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
```

## Dirlist.c


Documents - File Manager
[Terminal - root@convy22n...
Terminal - root@convy22nd...
22:44
Terminal - root@convy22nd-Lenovo-ideapad-100-14IBD: /home/convy_22nd/Documents
File Edit View Terminal Tabs Help

```
  ____                            ____  ____            _ 
 / ___|___  _ ____   ___   _     |___ \|___ \ _ __   __| |
| |   / _ \| '_ \ \ / / | | |      __) | __) | '_ \ / _` |
| |__| (_) | | | \ V /| |_| |     / __/ / __/| | | | (_| |
 \____\___/|_| |_|\_/  \__, |____|_____|_____|_| |_|\__,_|
                       |___/_____|                        
convy_22nd@convy22nd-Lenovo-ideapad-100-14IBD:~/Documents$ clear
convy_22nd@convy22nd-Lenovo-ideapad-100-14IBD:~/Documents$ sudo su
[sudo] password for convy_22nd:
  ____                            ____  ____            _ 
 / ___|___  _ ____   ___   _     |___ \|___ \ _ __   __| |
| |   / _ \| '_ \ \ / / | | |      __) | __) | '_ \ / _` |
| |__| (_) | | | \ V /| |_| |     / __/ / __/| | | | (_| |
 \____\___/|_| |_|\_/  \__, |____|_____|_____|_| |_|\__,_|
                       |___/_____|                        
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# gcc dirlist.c
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# ./a.out .
stat.c
stat.c.save
..
Problem Solving LO Makrab
a.out
exploit-linuxsec-org-tutorial-sql-injection-manual-.pdf
diskrit
tugasTambahan
kaliBlackMain.png
jcalendar-1.4.jar
dirlist.c
latian_uts
Untitled 1.odt
Project PBO
.
root@convy22nd-Lenovo-ideapad-100-14IBD:/home/convy_22nd/Documents# 
```

# Source code dirlist.c



```c
#include <stdio.h>
#include <stdlib.h>
#include <dirent.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);
}
```