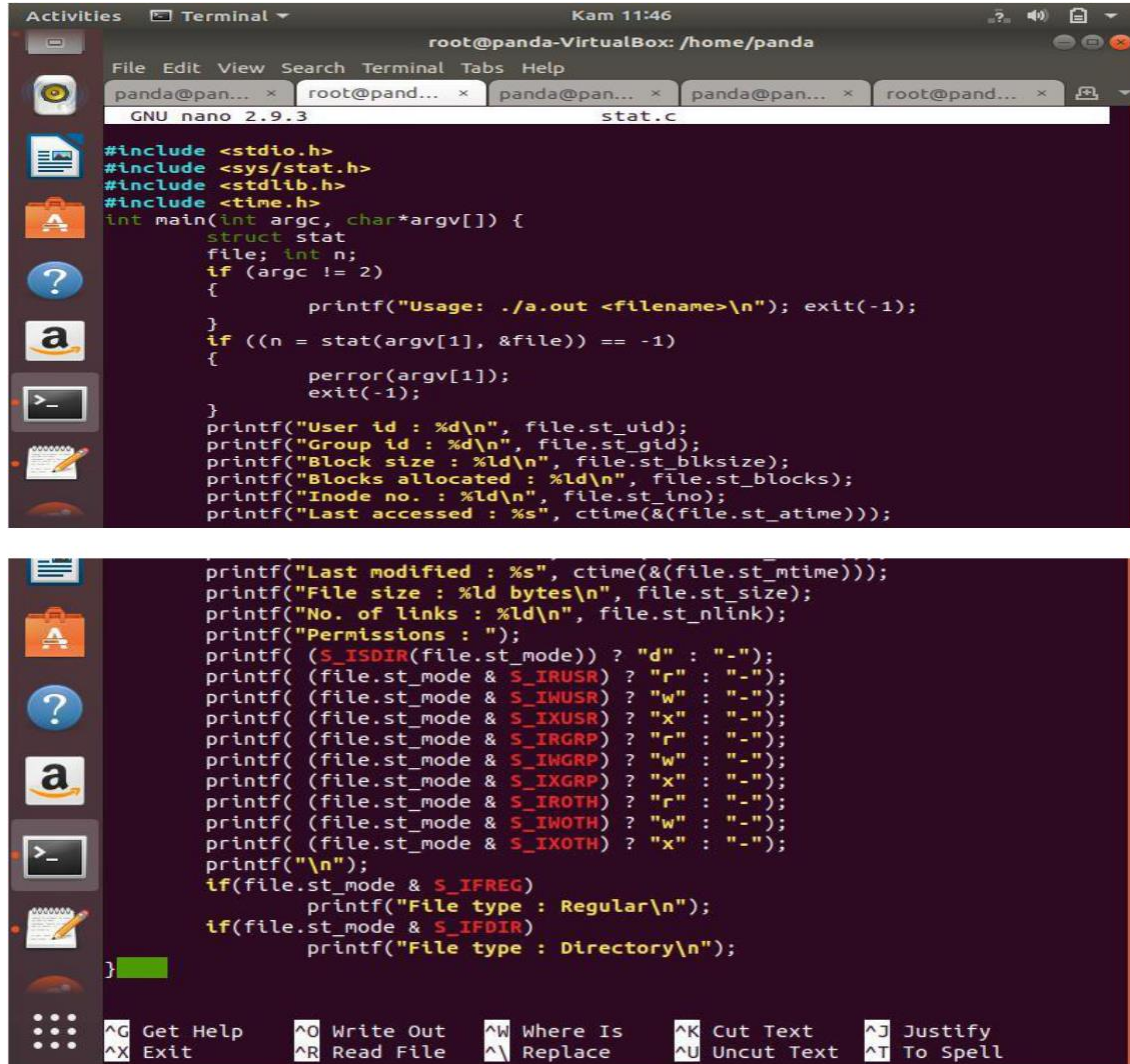


Nama : Aulia Yogatama

NIM : L200180081

Tugas Modul 8

- stat.c



```
Activities  Terminal  Kam 11:46
root@panda-VirtualBox: /home/panda

File Edit View Search Terminal Tabs Help
panda@pan... x root@pand... x panda@pan... x panda@pan... x root@pand... x
GNU nano 2.9.3 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 : %ld\n", file.st_blksize);
    printf("Blocks allocated : %ld\n", file.st_blocks);
    printf("Inode no. : %ld\n", file.st_ino);
    printf("Last accessed : %s", ctime(&(file.st_atime)));

    printf("Last modified : %s", ctime(&(file.st_mtime)));
    printf("File size : %ld bytes\n", file.st_size);
    printf("No. of links : %ld\n", file.st_nlink);
    printf("Permissions : ");
    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 ^\ Replace ^U Uncut Text ^T To Spell
```

Activities Terminal Kam 11:48

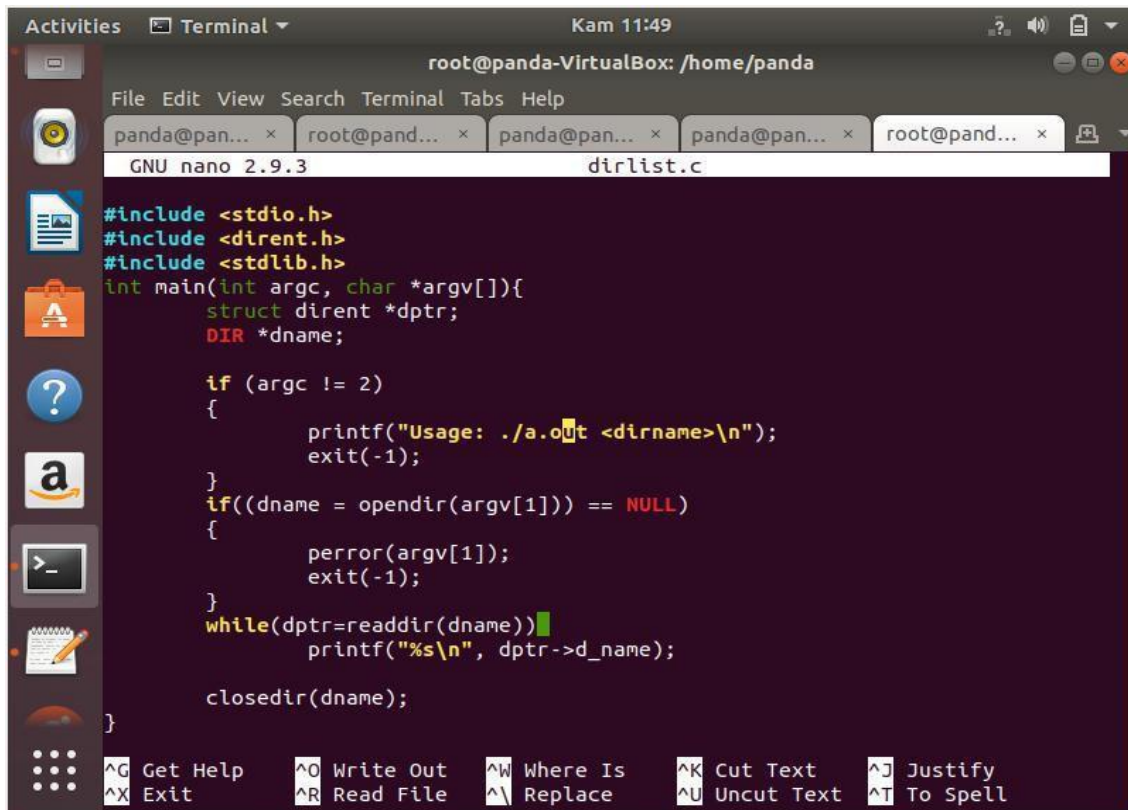
panda@panda-VirtualBox: ~

File Edit View Search Terminal Tabs Help

panda@pan... x root@pand... x panda@pan... x panda@pan... x root@pand... x

```
panda@panda-VirtualBox:~$ gcc stat.c
panda@panda-VirtualBox:~$ ./a.out stat.c
User id : 0
Group id : 0
Block size : 4096
Blocks allocated : 8
Inode no. : 131874
Last accessed : Thu Nov 21 11:36:57 2019
Last modified : Thu Nov 21 11:36:45 2019
File size : 1561 bytes
No. of links : 1
Permissions : -rw-r--r--
File type : Regular
panda@panda-VirtualBox:~$
```

- dirlist.c



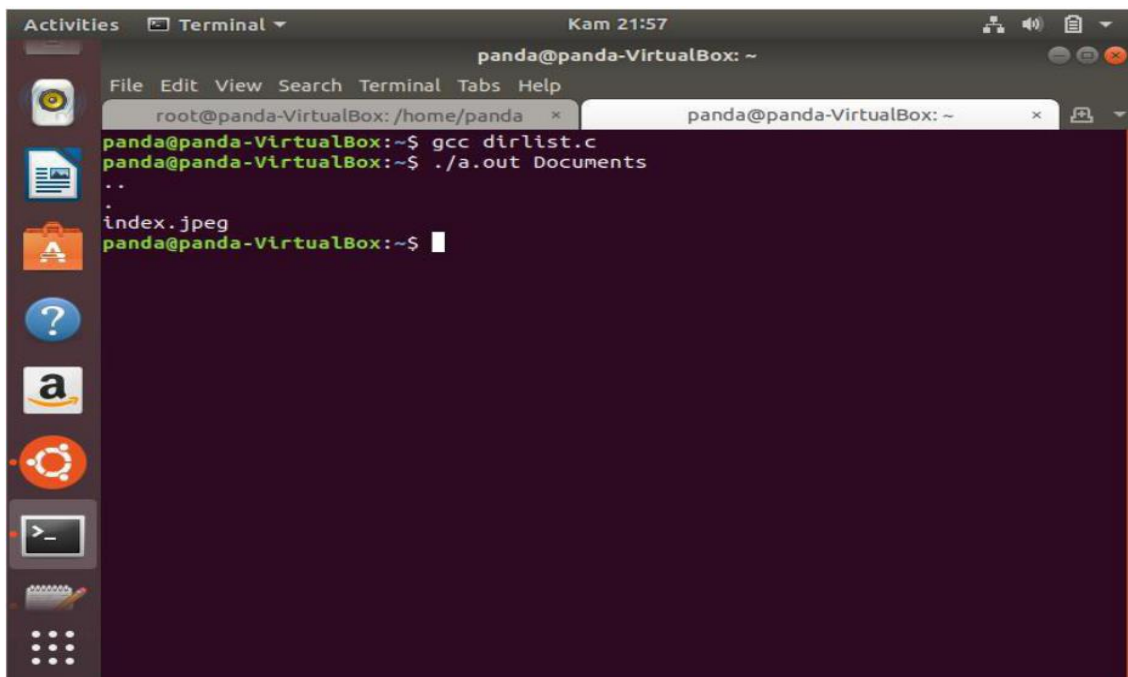
The screenshot shows a terminal window titled "root@panda-VirtualBox: /home/panda". The nano editor is open, editing a file named "dirlist.c". The code is as follows:

```
#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 of the terminal, there is a row of keyboard shortcuts: `^G Get Help`, `^O Write Out`, `^W Where Is`, `^K Cut Text`, `^J Justify`, `^X Exit`, `^R Read File`, `^L Replace`, `^U Uncut Text`, and `^T To Spell`.



The screenshot shows a terminal window titled "panda@panda-VirtualBox: ~". The user has compiled the program and run it. The commands and output are:

```
panda@panda-VirtualBox:~$ gcc dirlist.c
panda@panda-VirtualBox:~$ ./a.out Documents
..
.
index.jpeg
panda@panda-VirtualBox:~$
```