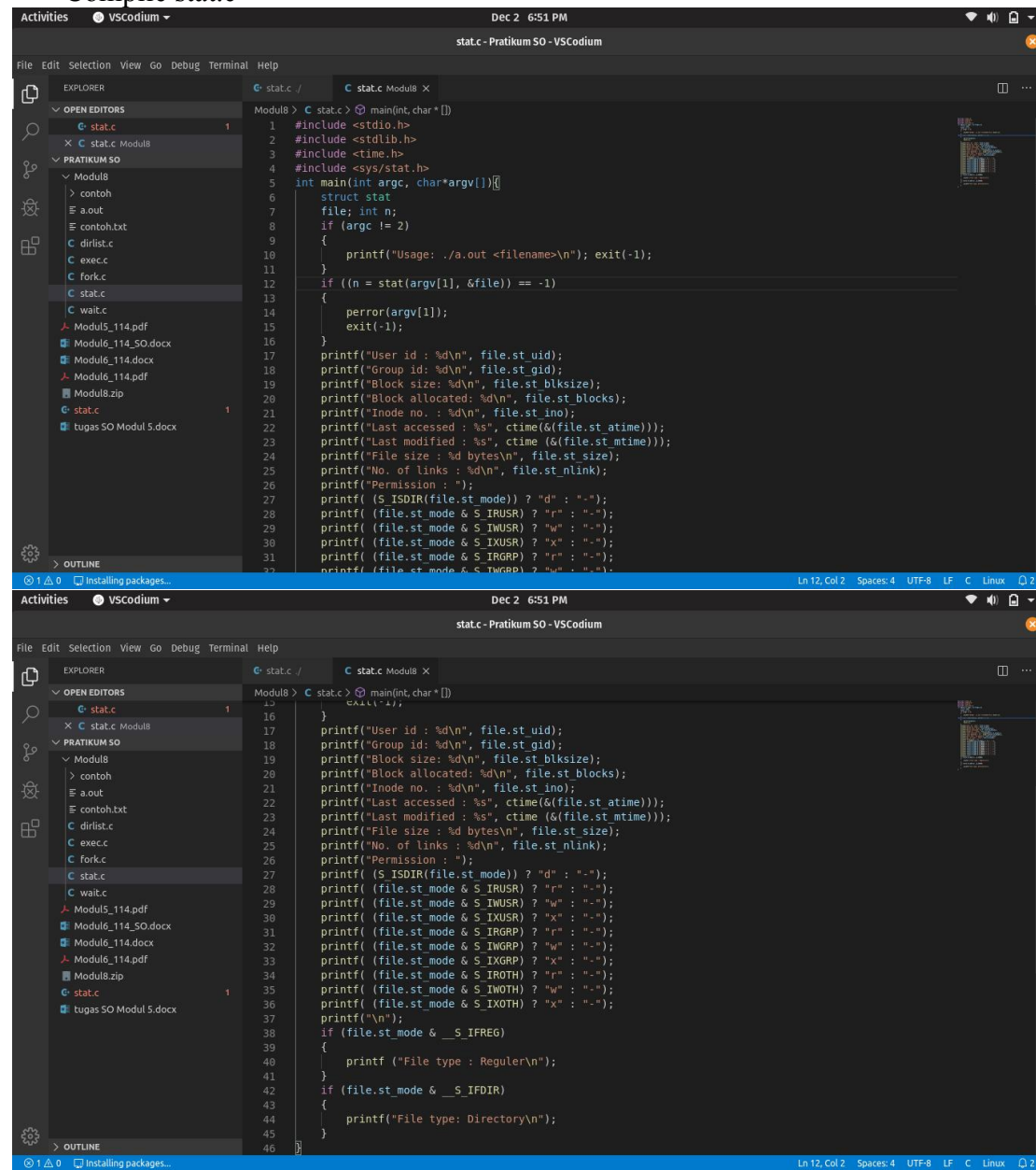


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NIM : L200180114

## ● Compile stat.c



```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <time.h>
4 #include <sys/stat.h>
5 int main(int argc, char*argv[])
6 {
7     struct stat
8     file; int n;
9     if (argc != 2)
10     {
11         printf("Usage: ./a.out <filename>\n"); exit(-1);
12     }
13     if ((n = stat(argv[1], &file)) == -1)
14     {
15         perror(argv[1]);
16         exit(-1);
17     }
18     printf("User id : %d\n", file.st_uid);
19     printf("Group id: %d\n", file.st_gid);
20     printf("Block size: %d\n", file.st_blksize);
21     printf("Block allocated: %d\n", file.st_blocks);
22     printf("Inode no. : %d\n", file.st_ino);
23     printf("Last accessed : %s", ctime(&file.st_atime));
24     printf("Last modified : %s", ctime (&file.st_mtime));
25     printf("File size : %d bytes\n", file.st_size);
26     printf("No. of links : %d\n", file.st_nlink);
27     printf("Permission : ");
28     printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
29     printf( (file.st_mode & S_IRUSR) ? "r" : "-");
30     printf( (file.st_mode & S_IWUSR) ? "w" : "-");
31     printf( (file.st_mode & S_IXUSR) ? "x" : "-");
32     printf( (file.st_mode & S_IRGRP) ? "r" : "-");
33     printf( (file.st_mode & S_IWGRP) ? "w" : "-");
34     printf( (file.st_mode & S_IXGRP) ? "x" : "-");
35     printf( (file.st_mode & S_IROTH) ? "r" : "-");
36     printf( (file.st_mode & S_IWOTH) ? "w" : "-");
37     printf( (file.st_mode & S_IXOTH) ? "x" : "-");
38     printf("\n");
39     if (file.st_mode & _S_IFREG)
40     {
41         printf ("File type : Regular\n");
42     }
43     if (file.st_mode & _S_IFDIR)
44     {
45         printf("File type: Directory\n");
46     }
47 }
```

(Code Program stat.c)

```
Activities Terminal Dec 2 6:51 PM
kintosi@pop-os: ~/Documents/Tugas/Pratikum SO/Modul8
kintosi@pop-os:~/Documents/Tugas/Pratikum SO/Modul8$ 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=]
19 | printf("Block size: %d\n", file.st_blksize);
   |                      ~^
   |                      |
   |                      int
   |                      __blksize_t {aka long int}
   |                      %ld
stat.c:20:31: warning: format '%d' expects argument of type 'int', but argument 2 has type '__blkcnt_t' {aka 'long int'} [-Wformat=]
20 | printf("Block allocated: %d\n", file.st_blocks);
   |                      ~^
   |                      |
   |                      int
   |                      __blkcnt_t {aka long int}
   |                      %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=]
21 | printf("Inode no. : %d\n", file.st_ino);
   |                      ~^
   |                      |
   |                      int
   |                      __ino_t {aka long unsigned int}
   |                      %ld
stat.c:24:26: warning: format '%d' expects argument of type 'int', but argument 2 has type '__off_t' {aka 'long int'} [-Wformat=]
24 | printf("File size : %d bytes\n", file.st_size);
   |                      ~^
   |                      |
   |                      int
   |                      __off_t {aka long int}
   |                      %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=]
25 | printf("No. of links : %d\n", file.st_nlink);
   |                      ~^
   |                      |
   |                      int
   |                      __nlink_t {aka long unsigned int}
   |                      %ld
kintosi@pop-os:~/Documents/Tugas/Pratikum SO/Modul8$
```

(Hasil Compile stat.c)

## ● Compile dirlist.c

```
Activities VSCodium Dec 2 6:53 PM
dirlist.c - Pratikum SO - VSCodium
File Edit Selection View Go Debug Terminal Help
EXPLORER
  OPEN EDITORS
    stat.c
    stat.c Modul8
    X dirlist.c Modul8
  PRATIKUM SO
    Modul8
    > contoh
    = a.out
    = contoh.txt
    C dirlist.c
    C exec.c
    C fork.c
    C stat.c
    C wait.c
    Modul5_114.pdf
    Modul6_114_SO.docx
    Modul6_114.docx
    Modul6_114.pdf
    Modul8.zip
    stat.c
    tugas SO Modul 5.docx
  OUTLINE
    Installing packages...
Modul8 > C dirlist.c > ...
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <dirent.h>
4 int main(int argc, char**argv[])
5 {
6     struct dirent *dptr;
7     DIR *dname;
8
9     if (argc != 2)
10    {
11        printf("Usage: ./a.out <dirname>\n");
12        exit(-1);
13    }
14    if ((dname = opendir(argv[1])) == NULL)
15    {
16        perror(argv[1]);
17        exit(-1);
18    }
19    while (dptr=readdir(dname))
20    {
21        printf("%s\n", dptr->d_name);
22    }
23    closedir(dname);
24 }
25
```

(Kode Program dirlist.c)

```
Activities Terminal Dec 2 6:53 PM
kintosi@pop-os: ~/Documents/Tugas/Pratikum SO/Modul8
kintosi@pop-os:~/Documents/Tugas/Pratikum SO/Modul8$ gcc dirlist.c
kintosi@pop-os:~/Documents/Tugas/Pratikum SO/Modul8$ ./a.out /home/kintosi/
.gnupg
.python_history
.local
.profile
.sudo_as_admin_successful
Documents
.vscode-cpptools
.bash_history
..
Pictures
.nbi
glassfish-4.1
.bashrc
Templates
.vscode-oss
.nv
.pki
.ssh
Desktop
.netbeans
.cache
netbeans-8.0.2
.
NetBeansProjects
Program
.pam_environment
.config
.java
.mozilla
Music
.bash_logout
Public
wget-hsts
```

(Hasil Compile dirlist.c)