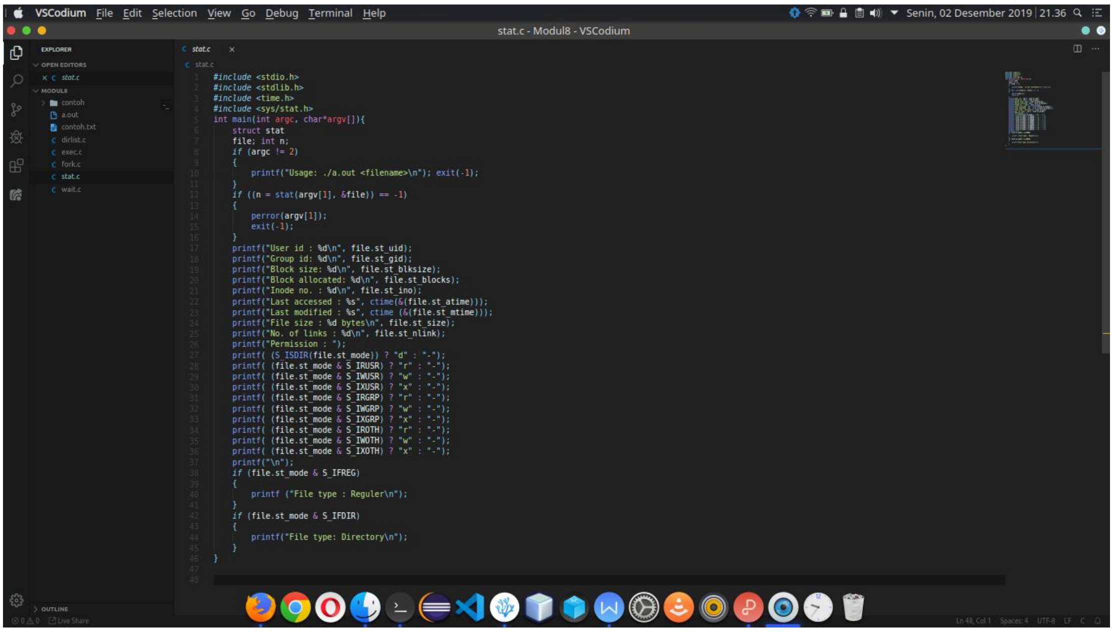
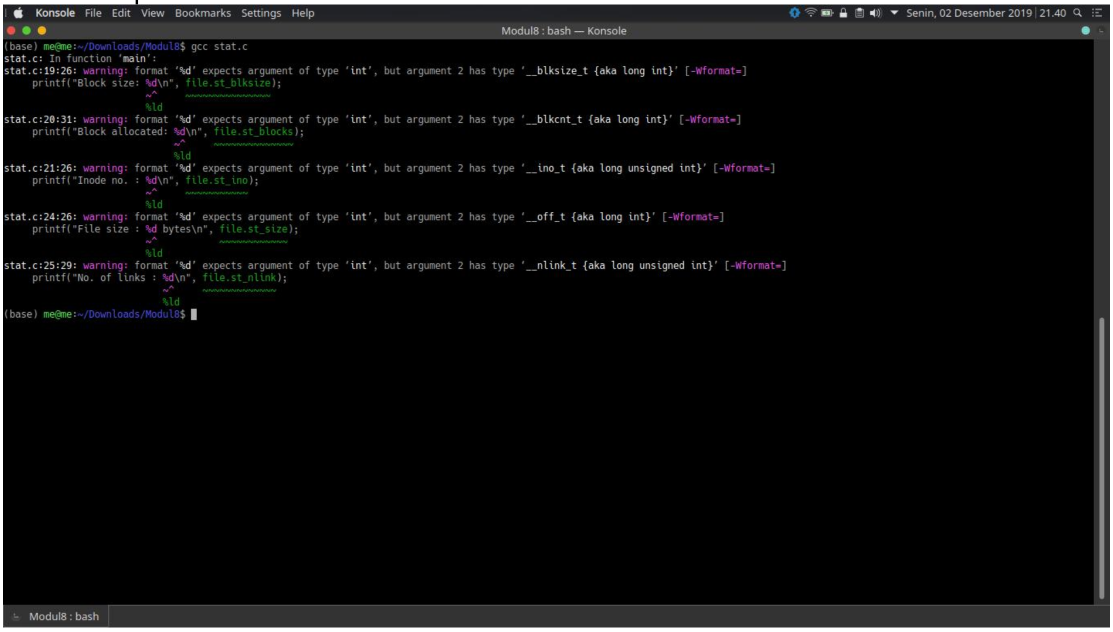
Naufal Randi Aldiansyah
L200180142
Modul 8

File stat.c


VSCodium File Edit Selection View Go Debug Terminal Help
Senin, 02 Desember 2019 | 21.36
stat.c - Modul8 - VSCodium
EXPLORER
OPEN EDITORS
MODUL8
contoh
a.out
contoh.txt
dirlist.c
exec.c
fork.c
stat.c
wait.c
OUTLINE
Live Share
Ln 48, Col 1 Spaces: 4 UTF-8 LF C

```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" : "-");
    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");
    }
}
```

Hasil compile stat.c


Konsole File Edit View Bookmarks Settings Help
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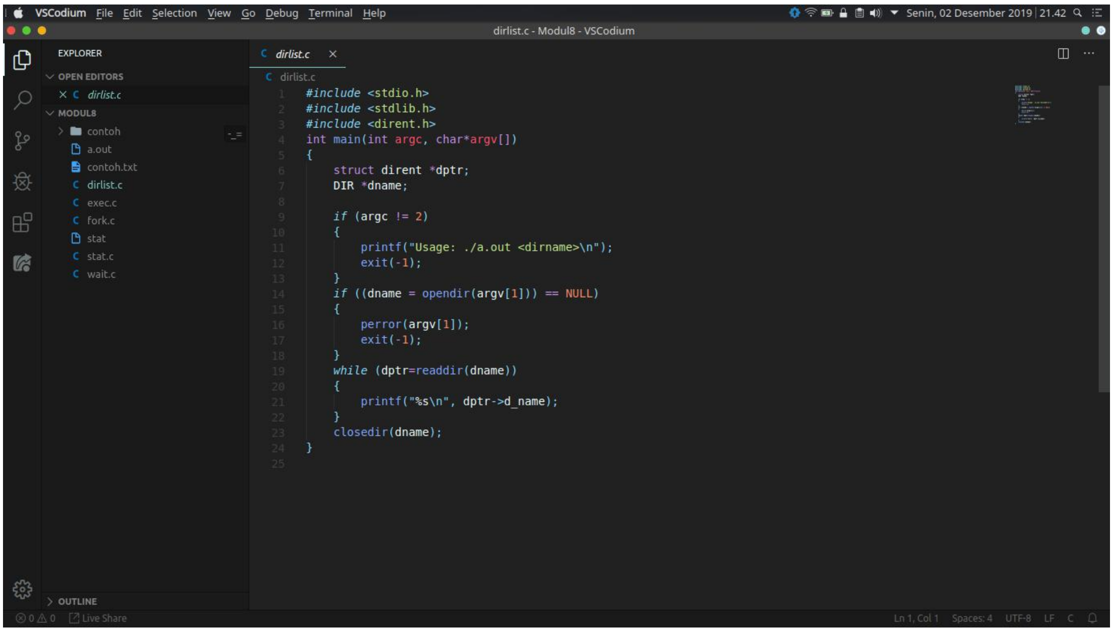
Modul8 : bash — Konsole
Modul8 : bash

```
(base) me@me:~/Downloads/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=]
     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
(base) me@me:~/Downloads/Modul8$ 
```

File dirlist.c



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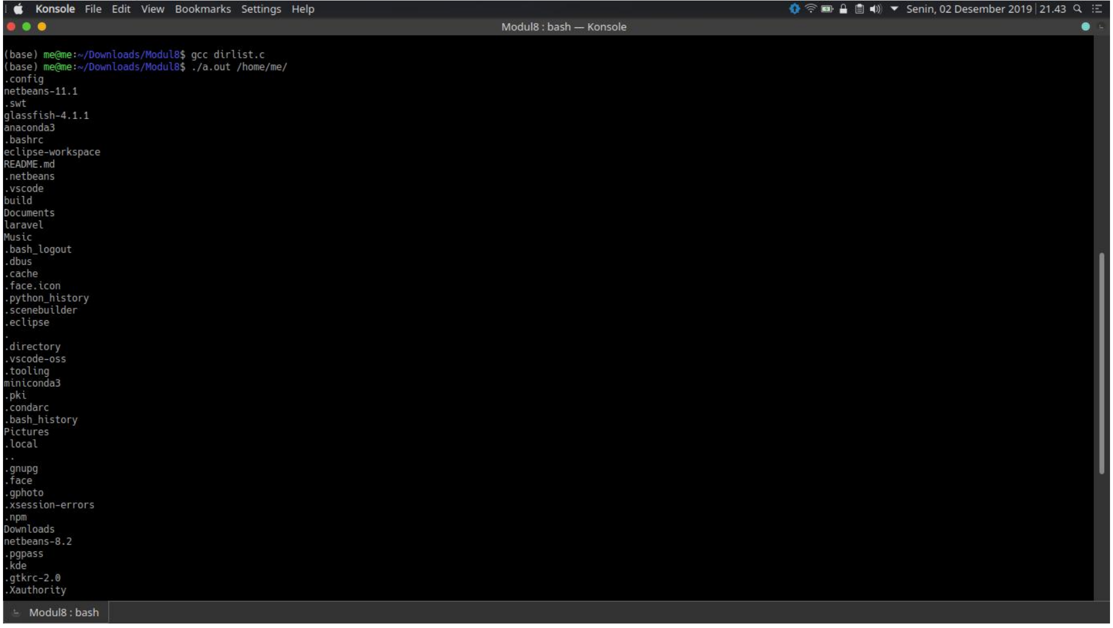
dirlist.c - Modul8 - VSCodium
EXPLORER
OPEN EDITORS
dirlist.c
MODUL8
contoh
a.out
contoh.txt
dirlist.c
exec.c
fork.c
stat
stat.c
wait.c
OUTLINE
Live Share
Ln 1, Col 1 Spaces: 4 UTF-8 LF C

```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);
}
```

Hasil compile dirlist.c



Konsole File Edit View Bookmarks Settings Help
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Modul8 : bash — Konsole
Modul8 : bash

```
(base) me@me:~/Downloads/Modul8$ gcc dirlist.c
(base) me@me:~/Downloads/Modul8$ ./a.out /home/me/
.config
netbeans-11.1
.swt
glassfish-4.1.1
anaconda3
.bashrc
eclipse-workspace
README.md
.netbeans
.vscode
build
Documents
laravel
Music
.bash_logout
.dbus
.cache
.face.icon
.python_history
.scenebuilder
.eclipse
.
.directory
.vscode-oss
.tooling
miniconda3
.pki
.condarc
.bash_history
Pictures
.local
..
.gnupg
.face
.gphoto
.xsession-errors
.npm
Downloads
netbeans-8.2
.pgpass
.kde
.gtkrc-2.0
.Xauthority
```