

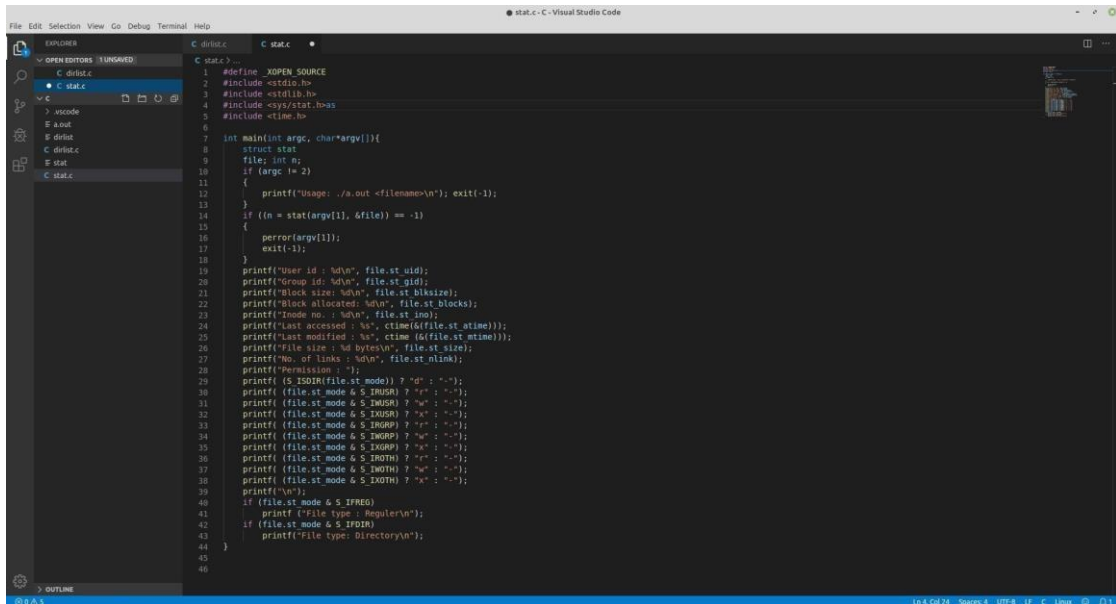
# PRAKTIKUM SISTEM OPERASI

## MODUL 8

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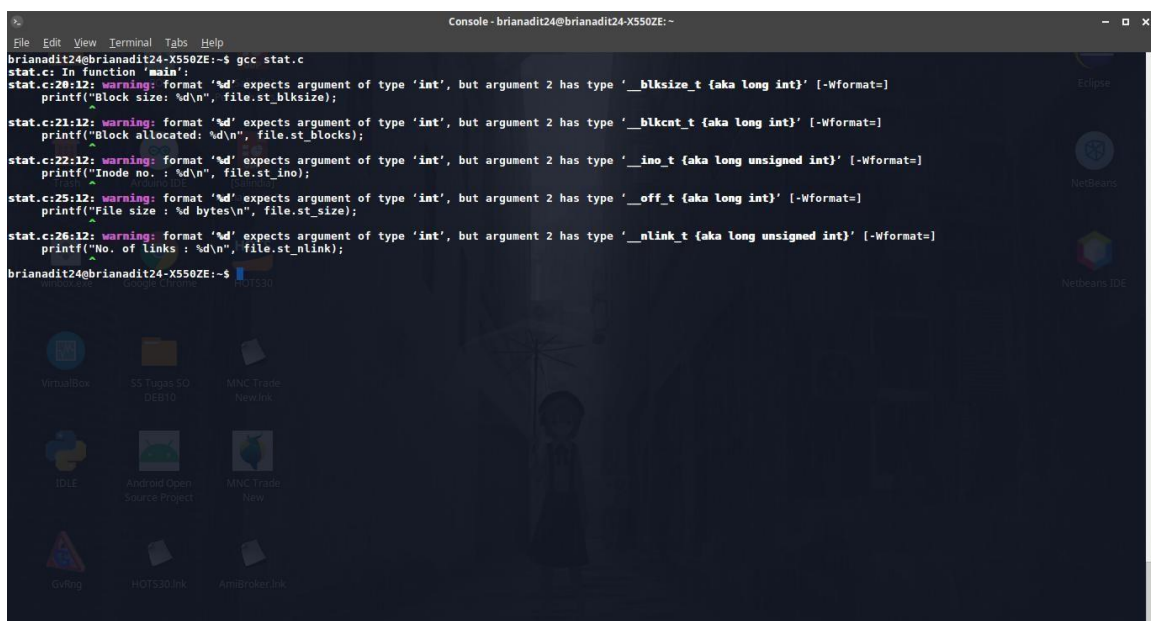
NIM : L200180115

- Compile stat.c



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

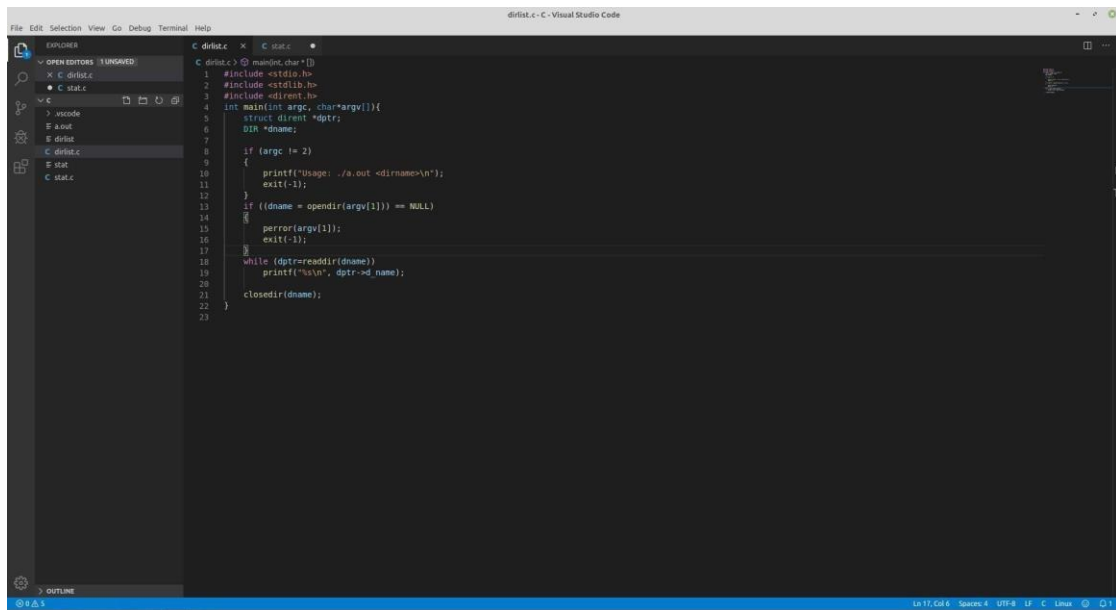
*Kode Program stat.c*



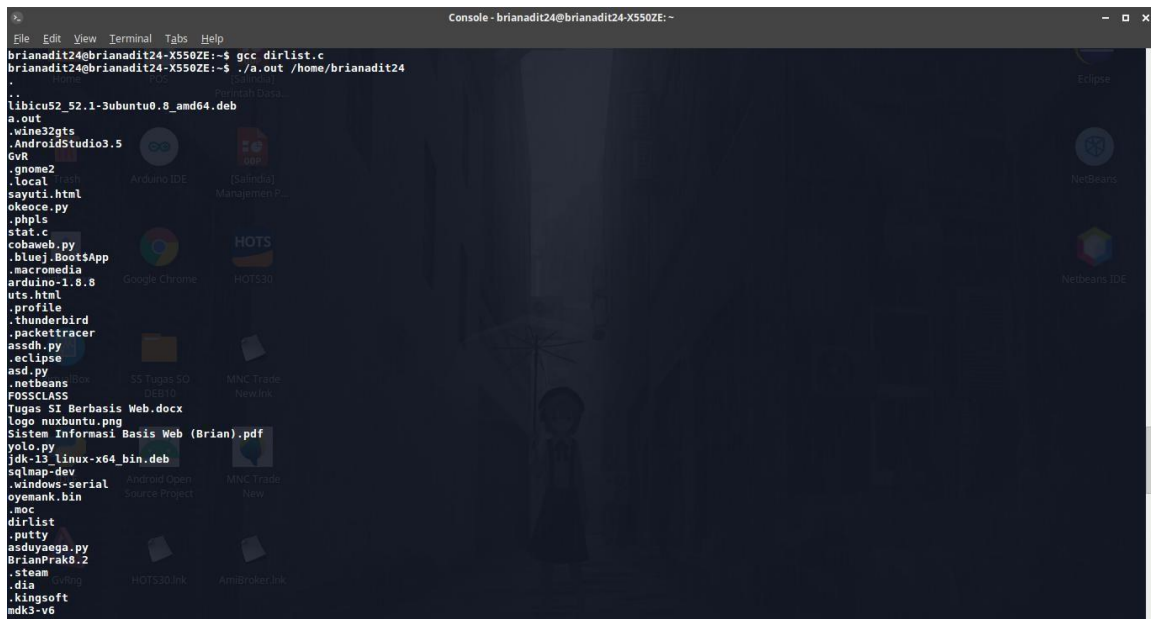
```
Console - brianadit24@brianadit24-X550ZE: ~
brianadit24@brianadit24-X550ZE:~$ gcc stat.c
stat.c: In function 'main':
stat.c:20:12: warning: format '%d' expects argument of type 'int', but argument 2 has type '__blksize_t {aka long int}' [-Wformat=]
printf("Block size: %d\n", file.st_blksize);
^
stat.c:21:12: 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);
^
stat.c:22:12: 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);
^
stat.c:25:12: 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);
^
stat.c:26:12: 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);
^
brianadit24@brianadit24-X550ZE:~$
```

*Hasil compile kode program stat.c*

- Mengcompile dirlist.c



*Kode Program dirlist.c*



*Hasil compile kode program dirlist.c*