

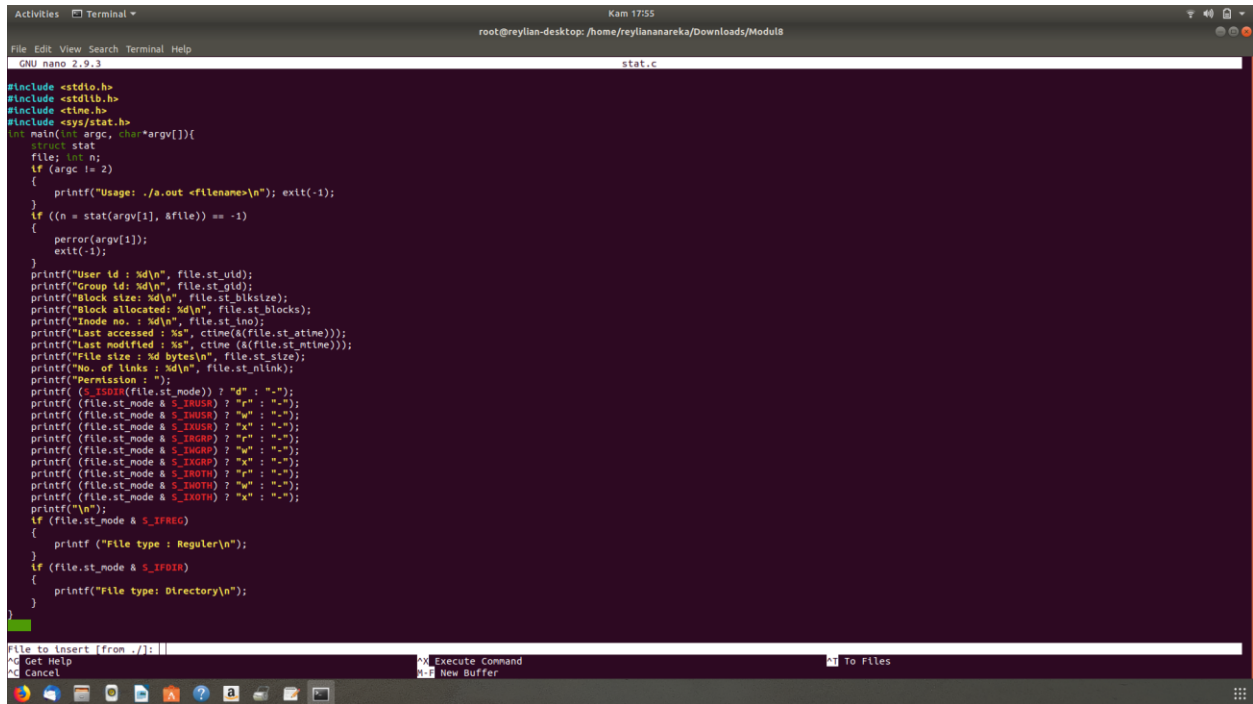
# Tugas Modul 8

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stat.c



```
Activities Terminal *
root@reylian-desktop: /home/reylianareka/Downloads/Modul8
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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" : "-");
    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");
    }
}
```

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Activities Terminal
Kam 18:08
root@reylian-desktop: /home/reylianareka/Downloads/Modul8

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apt install make
apt install make-guile

root@reylian-desktop: /home/reylianareka/Downloads/Modul8# mkdir nopal
root@reylian-desktop: /home/reylianareka/Downloads/Modul8# cd nopal
root@reylian-desktop: /home/reylianareka/Downloads/Modul8/nopal# mkdir ganteng
root@reylian-desktop: /home/reylianareka/Downloads/Modul8/nopal# gcc wait.c
gcc: error: wait.c: No such file or directory
gcc: fatal error: no input files
compilation terminated.
root@reylian-desktop: /home/reylianareka/Downloads/Modul8/nopal# cd ..
root@reylian-desktop: /home/reylianareka/Downloads/Modul8# gcc wait.c
wait.c: In function 'main':
wait.c:17:9: warning: implicit declaration of function 'wait'; did you mean 'main'? [-Wimplicit-function-declaration]
    wait(NULL);
    ^~~~~
wait.c:17:9: note: 'wait' was declared here
root@reylian-desktop: /home/reylianareka/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);
                           ^~
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_blkcnt);
                               ^~
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);
                           ^~
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);
                           ^~
stat.c:25:29: warning: format '%d' expects argument of type 'int', but argument 2 has type '__link_t {aka long unsigned int}' [-Wformat=]
    printf("No. of links : %d\n", file.st_nlink);
                           ^~
root@reylian-desktop: /home/reylianareka/Downloads/Modul8# ./a.out nopal
User id : 0
Group id: 0
Block size: 4096
Block allocated: 8
Inode no. : 65796
Last accessed : Thu Nov 21 18:07:10 2019
Last Modified : Thu Nov 21 18:07:20 2019
File size : 4096 bytes
No. of links : 3
Permission : drwxr-xr-x
File type: Directory
root@reylian-desktop: /home/reylianareka/Downloads/Modul8#
```

## dirlist.c

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Activities Terminal
Kam 17:59
root@reylian-desktop: /home/reylianareka/Downloads/Modul8

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GNU nano 2.9.3 dirlist.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);
}
```

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Activities Terminal
Kam 18:08
root@reyllan-desktop: /home/reyllanareka/Downloads/Modul8

File Edit View Search Terminal Help
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8# cd nopal
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8/nopal# mkdir ganteng
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8/nopal# gcc wait.c
gcc: error: wait.c: No such file or directory
gcc: fatal error: no input files
compilation terminated.
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8/nopal# cd ..
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8# gcc wait.c
wait.c: In function 'main':
wait.c:17:9: warning: implicit declaration of function 'wait'; did you mean 'main'? [-Wimplicit-function-declaration]
    wait(NULL);
    ^~~~~
    |
    v
main
root@reyllan-desktop:/home/reyllanareka/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);
                           ^~
                           |
                           v
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);
                               ^~
                               |
                               v
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);
                           ^~
                           |
                           v
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);
                           ^~
                           |
                           v
stat.c:25:29: warning: format '%d' expects argument of type 'int', but argument 2 has type '__link_t {aka long unsigned int}' [-Wformat=]
    printf("No. of links : %d\n", file.st_nlink);
                           ^~
                           |
                           v
main
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8# ./a.out nopal
User id : 0
Group id: 0
Block size: 4096
Block allocated: 8
Inode no. : 65796
Last accessed : Thu Nov 21 18:07:10 2019
Last modified : Thu Nov 21 18:07:20 2019
File size : 4096 bytes
No. of links : 3
Permission : drwxr-xr-x
File type: Directory
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8# gcc dirlist.c
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8# ./a.out nopal
.
..
ganteng
root@reyllan-desktop:/home/reyllanareka/Downloads/Modul8#
```