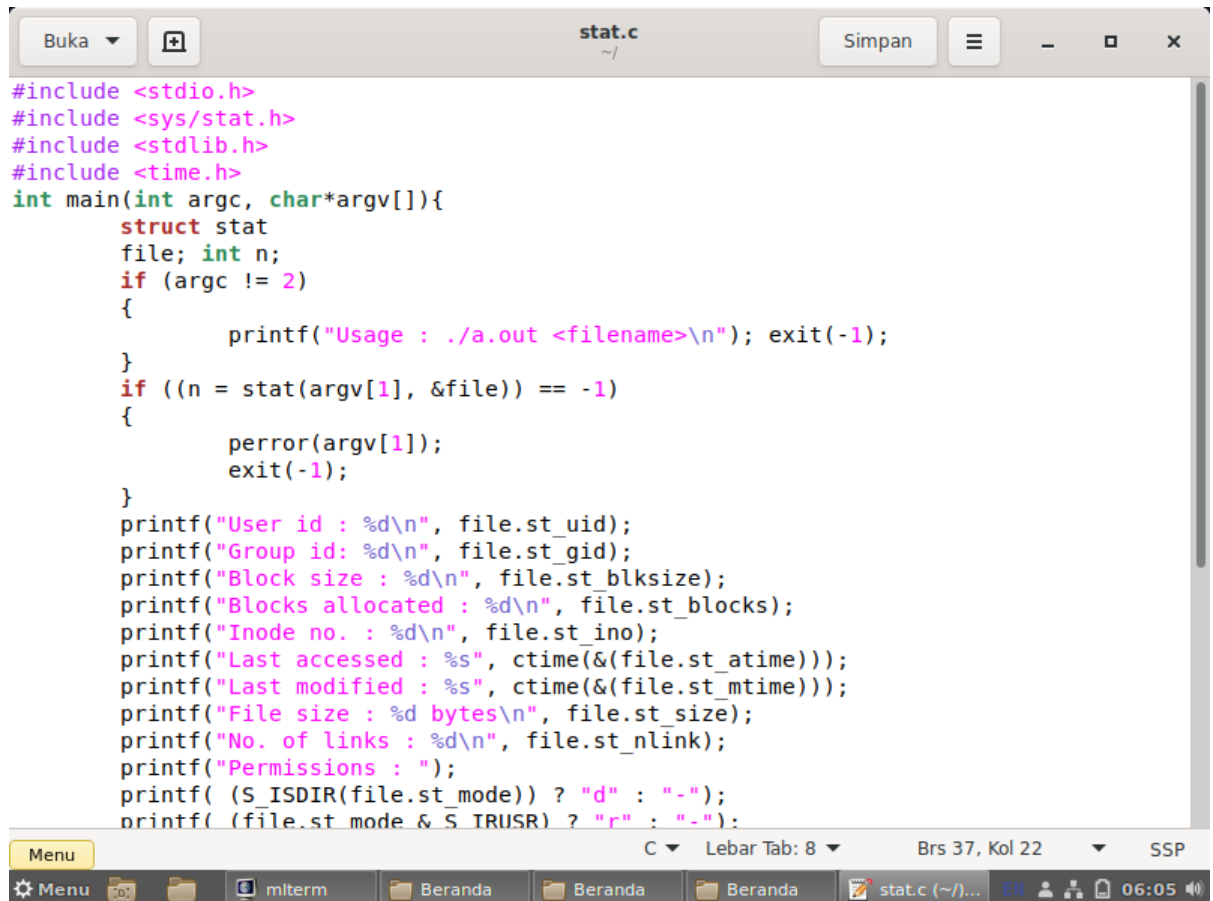


Nama : M. Hilmy raihan

Nim. : L200180029

## Modul8

### 1. Menggunakan perintah system call "stat"



```
#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 : %d\n", file.st_blksize);
    printf("Blocks 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("Permissions : ");
    printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
    printf( (file.st_mode & S_IRUSR) ? "r" : "-"):
```

```
excl (-1j;
```

```
printf("user id : %d\n", file.st uid); printf("Group id: %d\n",
file.st_gid); printf("Blocksize:%d\n",file.stblksize);
printf("Blocks allocated : %d\n", file.st blocks); printf("Inode no. :
%d\n", file.st ino);
printf("Lastaccessed:%s",ctime(&{file.statime}));
printf("Lastmodified:%s",ctime(6(file.st_mtime)));
printf("Filesize:%dbytes\n",file.stsizes; printf("Mo. of links : %d\n",
file.st mink); printf("Permissions :");
printf( (SISDIR(file.st models ? "d" : "-");
printf((file.stmode6SIRUSR)? "r" : "-");
printf(file.st_mode6S_IWUSR)? "w" : "-"); printf ( ( f1te . st
mode 6 S IXUSR) ? "x" : "-");
printf ( ( f1te . st mode 6 S IRGRP) ? "r" : "-");
printf( (file.st_mode 6 S_IWGRP) ? "w" : "-");
printf ( ( f1te . st mode 6 S IXGRP) ? "x" : "-");
printf ( ( f1te . st_mode 6 S_IROTH) ? "r" : "-");
printf( (file.st mode 6 S_IWOTH) ? "w" : "-");
printf({file.stmode6SIXOTH)? "x" : "-"); printf("\n");
if(file.st mode & SIFREG)
printf("File type : Regular\n");
If ( f1te . st_oode 6 S_IFDIR)
printf ( " Fate type : Dz rectory\ n" ) :
```

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```
stat.c:41:37: error: expected *, before *} token
pr1ntf ( " F1t e type : D1rectory\ n" );
```

```
acergdeb1an : -S gcc stat . c
```

```
acerQdeb1an : -S . l a . out Usage :
```

```
./a.out<Yilename>
```

```
acergdeb1an : -S ./a.out stat.c
```

```
User id : 1000 Group id:
```

```
1000 Block size : 4096
```

```
Blocks allocated : 8
```

```
Inode no. : 523434
```

```
Last accessed : MonDec 2 06:02:50 2019
```

```
Last modified : MonDec 2 06:02:41 2019 File
```

```
size : 1369bytes
```

```
No. of links : 1
```

```
Permissions : -rw- -r--
```

```
File type : Regular
```

```
aceri deb1an : -S
```

## 2. Menggunakan perintah system call "readdir"

```
dirlist.c
~/
Buka
Simpan

#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);
}
```

```
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Menu Beranda Beranda [mlterm] dirlist.c (~/) - ... 11:34
Beranda
mlterm

acer@debian:~$ gcc dirlist.c
acer@debian:~$
acer@debian:~$ gcc dirlist.c
acer@debian:~$
acer@debian:~$ ./a.out dirlist.c
dirlist.c: Not a directory
acer@debian:~$ nano dirlist.c
acer@debian:~$ gcc dirlist.c
acer@debian:~$ ./a.out dirlist.c
dirlist.c: Not a directory
acer@debian:~$ ./a.out
Usage : ./a.out <dirname>
acer@debian:~$ ./a.out dirlist
dirlist: No such file or directory
acer@debian:~$ ./a.out dirlist.c
dirlist.c: Not a directory
acer@debian:~$ ./a.out /bin/ls ls
Usage : ./a.out <dirname>
acer@debian:~$ ./a.out /bin/ls ls dirlist.c
Usage : ./a.out <dirname>
acer@debian:~$

"dirlist.c" dipilih (362 bita), Ruang kosong: 22,4 GB
Menu Beranda Beranda mlterm 11:34
```