LAPORAN PRAKTIKUM SISTEM OPERASI
MODUL 10
"SIMULASI COMMAND"

Oleh:

NAMA : Daffa Putra Alwansyah
NIM : L200190031
KELAS : B
PRODI : INFORMATIKA

Fakultas Komunikasi dan Informatika Universitas Muhammadiyah Surakarta

list.c

```c
#include <stdio.h>
#include <dirent.h>

main() {
    struct dirent
    **namelist; int n,i;
    char pathname[100];
    getcwd(pathname);

    n = scandir(pathname, &namelist, 0, alphasort);
    if(n < 0)
        printf("Error\n");\
    else
        for(i=0; i<n; i++) if(namelist[i]->d_name[0] !='.')
            printf("%-20s", namelist[i]->d_name);
}
```

```
root@bodhi-VirtualBox:/home/bodhi/Documents# gcc list.c -o list
list.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main() {
 ^~~~
list.c: In function 'main':
list.c:8:5: warning: implicit declaration of function 'getcwd'; did you mean 'getw'? [-Wimplicit-function-declaration]
     getcwd(pathname);
     ^~~~~~
     getw
root@bodhi-VirtualBox:/home/bodhi/Documents# ./list
L200190031      a.out       copy.c          del.c       dirlist.c       exec.c          fappend
    fappend.c       fcreate     fcreate.c       fork.c      fread           fread.c         list
        list.c      mygrep.c        stat.c          test.txt        wait.c          root@bodhi-VirtualBox:/home/
root@bodhi-VirtualBox:/home/bodhi/Documents#
```

mygrep.c

```c
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
main(int argc, char *argv[]){
    FILE *fd;
    char str[100];
    char c;
    int i, flag, j, m, k;
    char temp[30];

    if (argc !=3)
    {
        printf("Usage: gcc mygreo.c -o mygrep\n");
        printf("Usage: ./mygrep <search_text> <filaname>\n");
        exit(-1);

    }

    fd = fopen(argv[2], "r");
    if(fd == NULL)
    {
        printf("%s is not exist\n", argv[2]);
        exit(-1);
    }
```
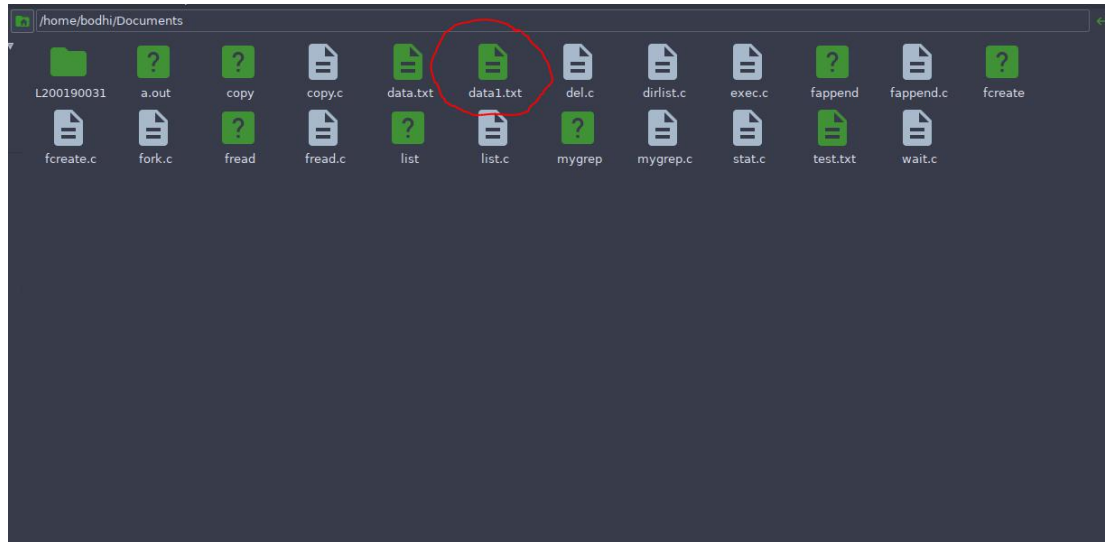
```
bodhi@bodhi-VirtualBox:~$ sudo su
[sudo] password for bodhi:
Sorry, try again.
[sudo] password for bodhi:
root@bodhi-VirtualBox:/home/bodhi# cd Documents
root@bodhi-VirtualBox:/home/bodhi/Documents# gcc mygrep.c -o mygrep
mygrep.c:4:1: warning: return type defaults to int [-Wimplicit-int]
 main(int argc, char *argv[]){
 ^~~~
root@bodhi-VirtualBox:/home/bodhi/Documents# ./mygrep Nama data.txt
Nama : Daffa Putra Alwansyah
root@bodhi-VirtualBox:/home/bodhi/Documents#
```

copy.c

```c
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <sys/stat.h>
#define SIZE 1024
main(int argc, char *argv[]){
    int src, dst, nread;
    char buf[SIZE];
    if (argc != 3)
    {
        printf("Usage: gcc copy.c -o copy\n");
        printf("Usage: ./copy <filename> <newfile> \n");
        exit(-1);
    }
    if ((src = open(argv[1],O_RDONLY)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
    if ((dst = creat(argv[2], 0644)) == -1)
    {
        perror(argv[1]);
        exit(-1);
    }
```

```
root@bodhi-VirtualBox:/home/bodhi/Documents# gcc copy.c -o copy
copy.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(int argc, char *argv[]){
 ^~~~

copy.c: In function 'main':
copy.c:25:21: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
     while ((nread = read(src, buf, SIZE)) > 0)
                     ^~~~
                     fread
copy.c:27:13: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
         if (write(dst, buf, nread) == -1)
             ^~~~~
             fwrite
copy.c:33:5: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
     close(src);
     ^~~~~
     pclose
root@bodhi-VirtualBox:/home/bodhi/Documents# ./copy data.txt data1.txt
root@bodhi-VirtualBox:/home/bodhi/Documents#
```

File <data1.txt> akan automatis tertambah.

del.c


```c
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
main (int argc, char* argv[]){
    int fd;
    if (argc != 2)
    {
        printf("Usage: gcc del.c -o del\n");
        printf("Usage: ./del <filename>\n");
        exit(-1);
    }
    fd = open(argv[1], O_RDONLY);
    if (fd != -1)
    {
        close(fd);
        unlink(argv[1]);
    }else
        perror(argv[1]);
}
```

```
root@bodhi-VirtualBox:/home/bodhi/Documents# gcc del.c -o del
del.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main (int argc, char* argv[]){
 ^~~~
del.c: In function 'main':
del.c:15:9: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
         close(fd);
         ^~~~~
         pclose
del.c:16:9: warning: implicit declaration of function 'unlink'; did you mean 'unix'? [-Wimplicit-function-declaration]
         unlink(argv[1]);
         ^~~~~~
         unix
root@bodhi-VirtualBox:/home/bodhi/Documents# ./del data1.txt
root@bodhi-VirtualBox:/home/bodhi/Documents#
```

File <data1.txt> akan terhapus di directory.