

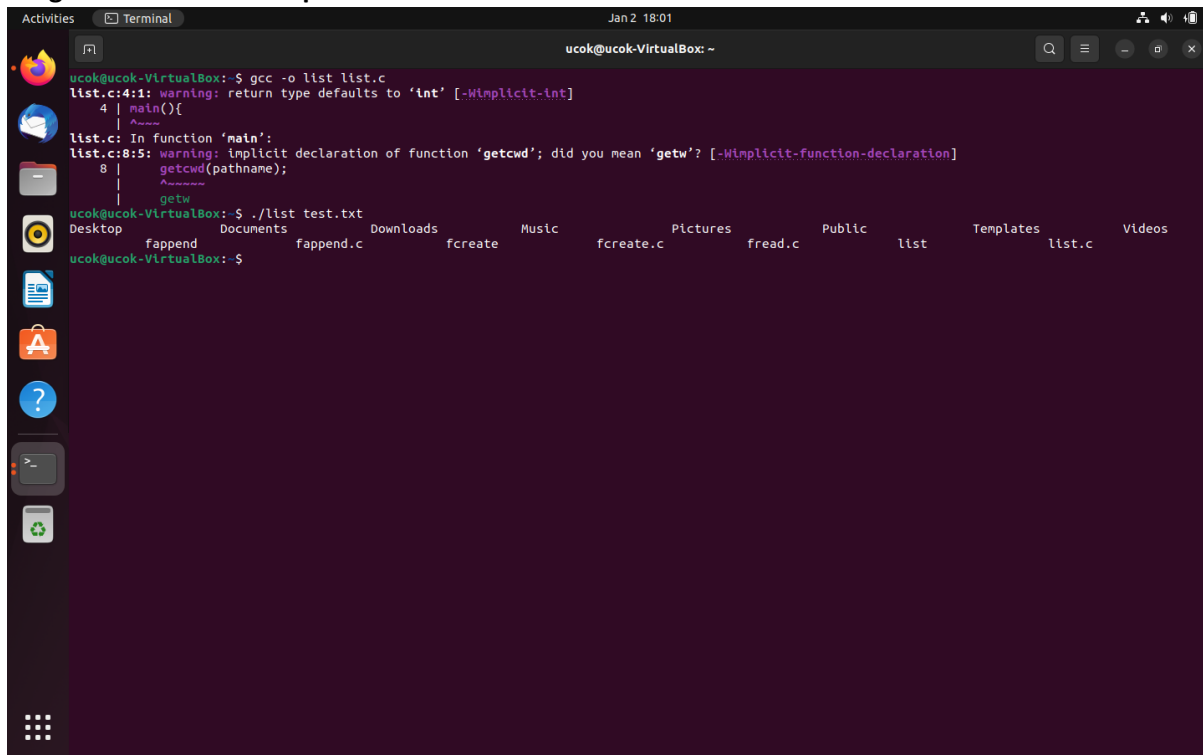
## LAPORAN PRAKTIKUM SISTEM OPERASI MODUL 10

UCOK SAYUTI

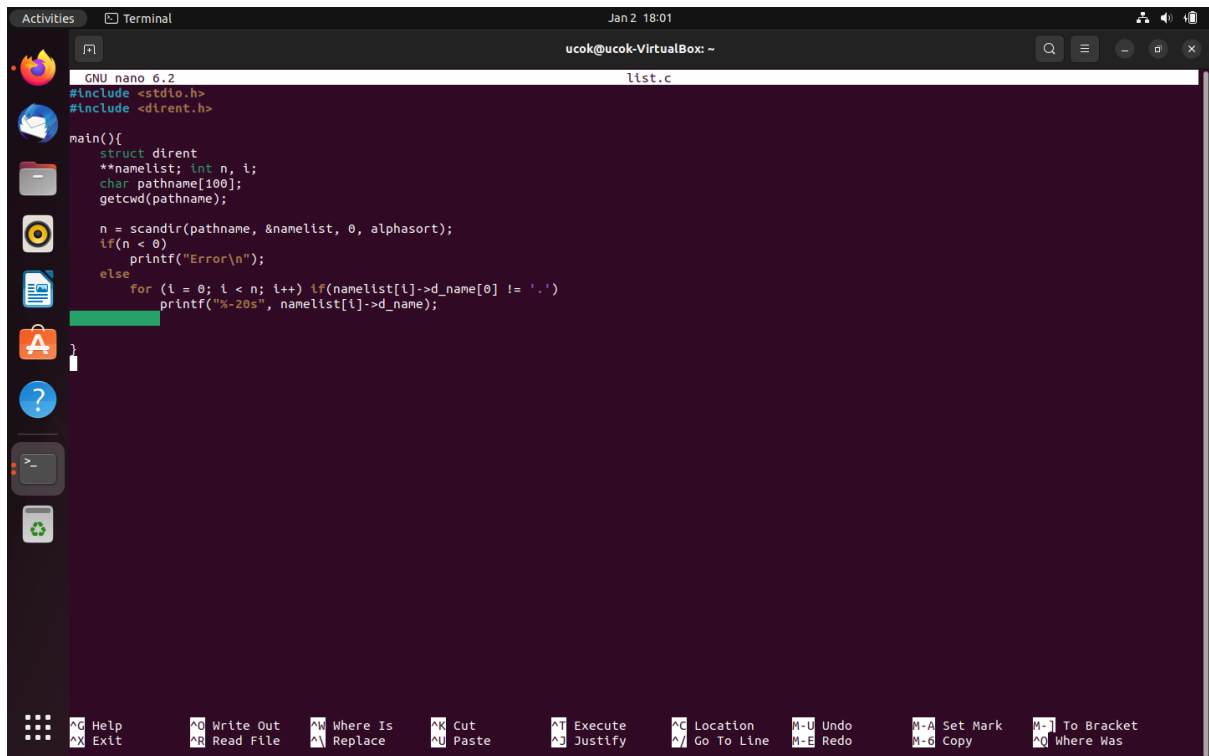
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KELAS E

### Program untuk simulasi perintah "ls"



```
Activities Terminal Jan 2 18:01 ucok@ucok-VirtualBox: ~
ucok@ucok-VirtualBox:~$ gcc -o list list.c
list.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
4 | main(){
  | ^~~~~~
list.c: In function 'main':
list.c:8:5: warning: implicit declaration of function 'getcwd'; did you mean 'getw'? [-Wimplicit-function-declaration]
8 |     getcwd(pathname);
  |     ^~~~~~
ucok@ucok-VirtualBox:~$ ./list test.txt
Desktop Documents Downloads Music Pictures Public Templates Videos
fappend fappend.c fcreate fcreate.c fread.c list list.c
ucok@ucok-VirtualBox:~$
```

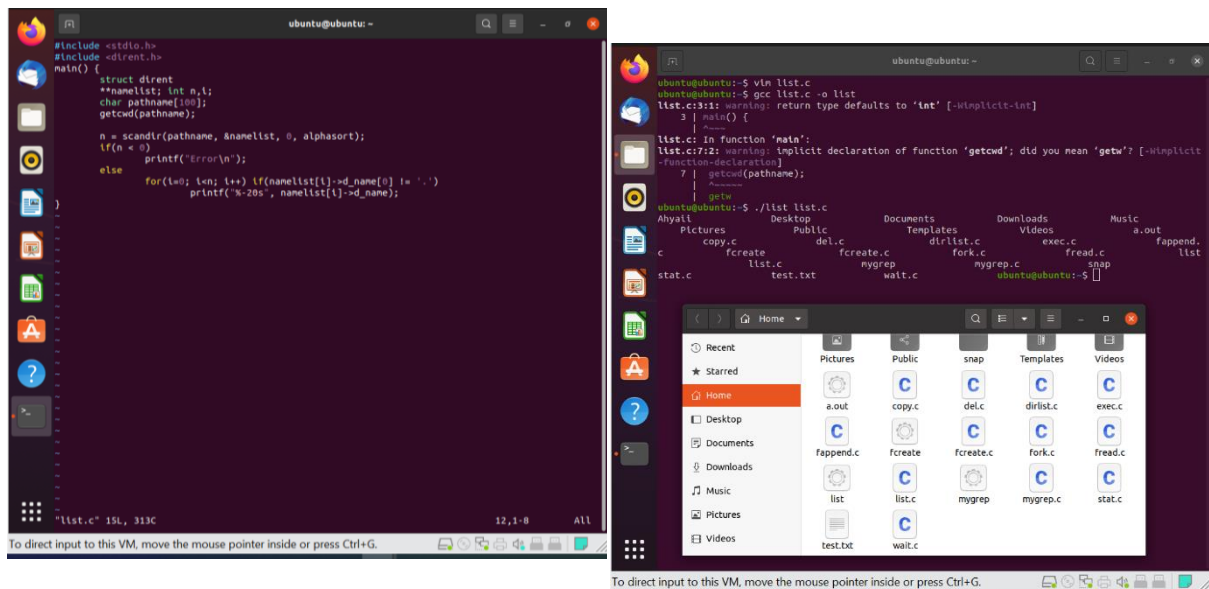


```
GNU nano 6.2 list.c
#include <stdio.h>
#include <dirent.h>

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);
}
```

## Program untuk simulasi perintah “Grep”



## Program untuk simulasi perintah “cp”

```
ubuntu@ubuntu: ~$ cat copy.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[2]);
        exit(-1);
    }
    while ((nread = read(src, buf, SIZE)) > 0)
    {
        if (write(dst, buf, nread) == -1)
        {
            printf("can't write\n");
            exit(-1);
        }
    }
    close(src);
    close(dst);
}
```

copy.c 35L, 614C

```
ubuntu@ubuntu: ~$ gcc copy.c
ubuntu@ubuntu: ~$ gcc copy.c -o copy
copy.c:6:11: warning: return type defaults to 'int' [-Wimplicit-int]
    6 |     main(int argc, char *argv[]) {
      |     ~~~~~
copy.c:25:18: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    25 |     while ((nread = read(src, buf, SIZE)) > 0)
      |                   ^~~~~
copy.c:27:16: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
    27 |         if (write(dst, buf, nread) == -1)
      |             ^~~~~
copy.c:33:12: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    33 |     close(src);
      |     ~~~~~
ubuntu@ubuntu: ~$ ./copy copy.c test.c
ubuntu@ubuntu: ~$
```

Recent  
Starred  
Home  
Desktop  
Documents  
Downloads  
Music

a.out copy copy.c del.c dirlist.c  
exec.c fappend.c fcreate.c fork.c  
fread.c list.c mygrep.c  
stat.c test.txt test.txt

## Program untuk simulasi perintah “rm”

```
ubuntu@ubuntu: ~$ cat del.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]);
}
```

del.c 19L, 319C

```
ubuntu@ubuntu: ~$ gcc del.c
ubuntu@ubuntu: ~$ gcc del.c -o del
del.c:4:11: warning: return type defaults to 'int' [-Wimplicit-int]
    4 |     main(int argc, char *argv[]) {
      |     ~~~~~
del.c:15:12: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
    15 |     close(fd);
      |     ~~~~~
del.c:16:12: warning: implicit declaration of function 'unlink' [-Wimplicit-function-declaration]
    16 |     unlink(argv[1]);
      |     ~~~~~
ubuntu@ubuntu: ~$ ./del test.c
ubuntu@ubuntu: ~$
```

Recent  
Starred  
Home  
Desktop  
Documents  
Downloads  
Music  
Pictures  
Public  
snap  
Templates  
Videos  
Trash  
Other Locations

Ahyali  
Pictures  
Public  
snap  
Templates  
Videos  
a.out copy copy.c del.c  
dirlist.c exec.c fappend.c fcreate.c fork.c  
fread.c list.c mygrep.c  
stat.c test.txt wait.c