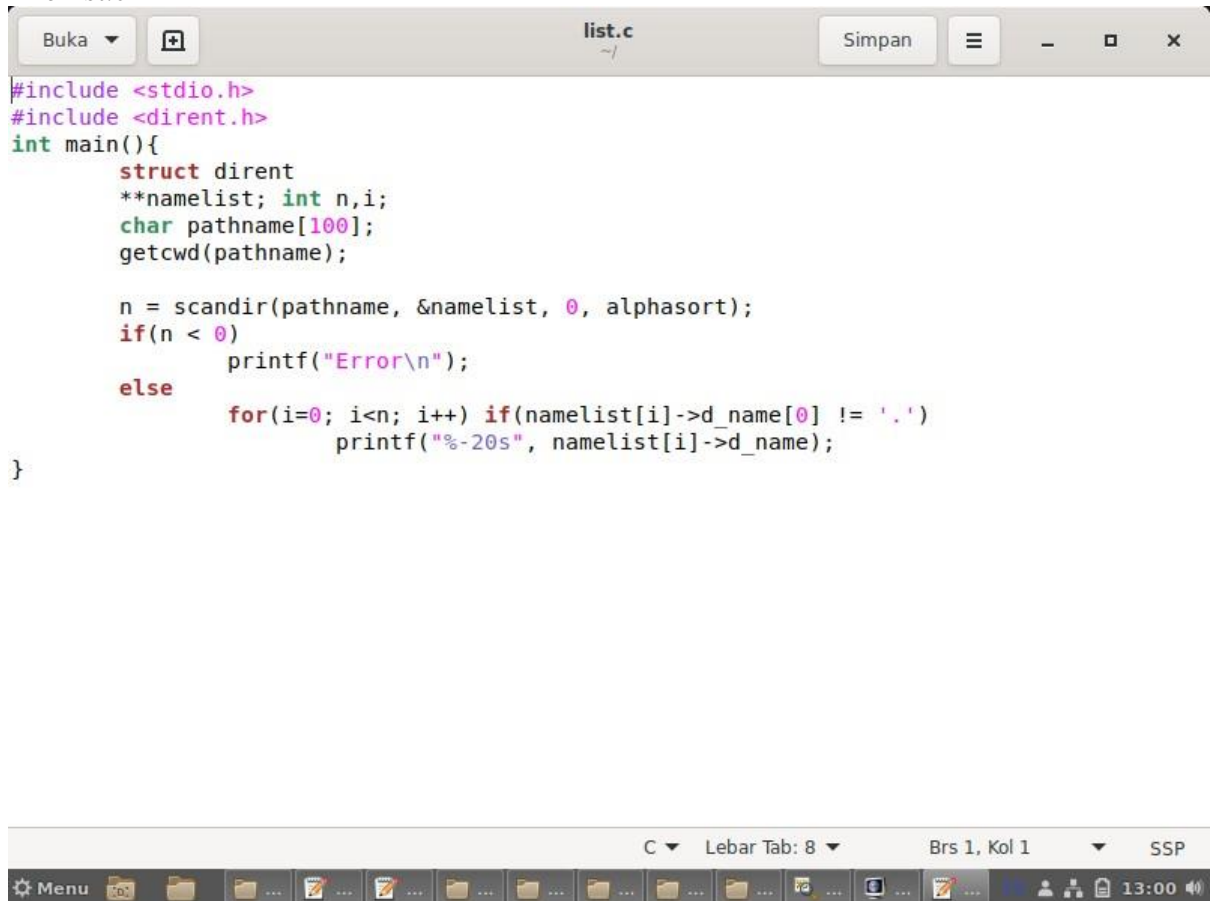


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## Modul 10

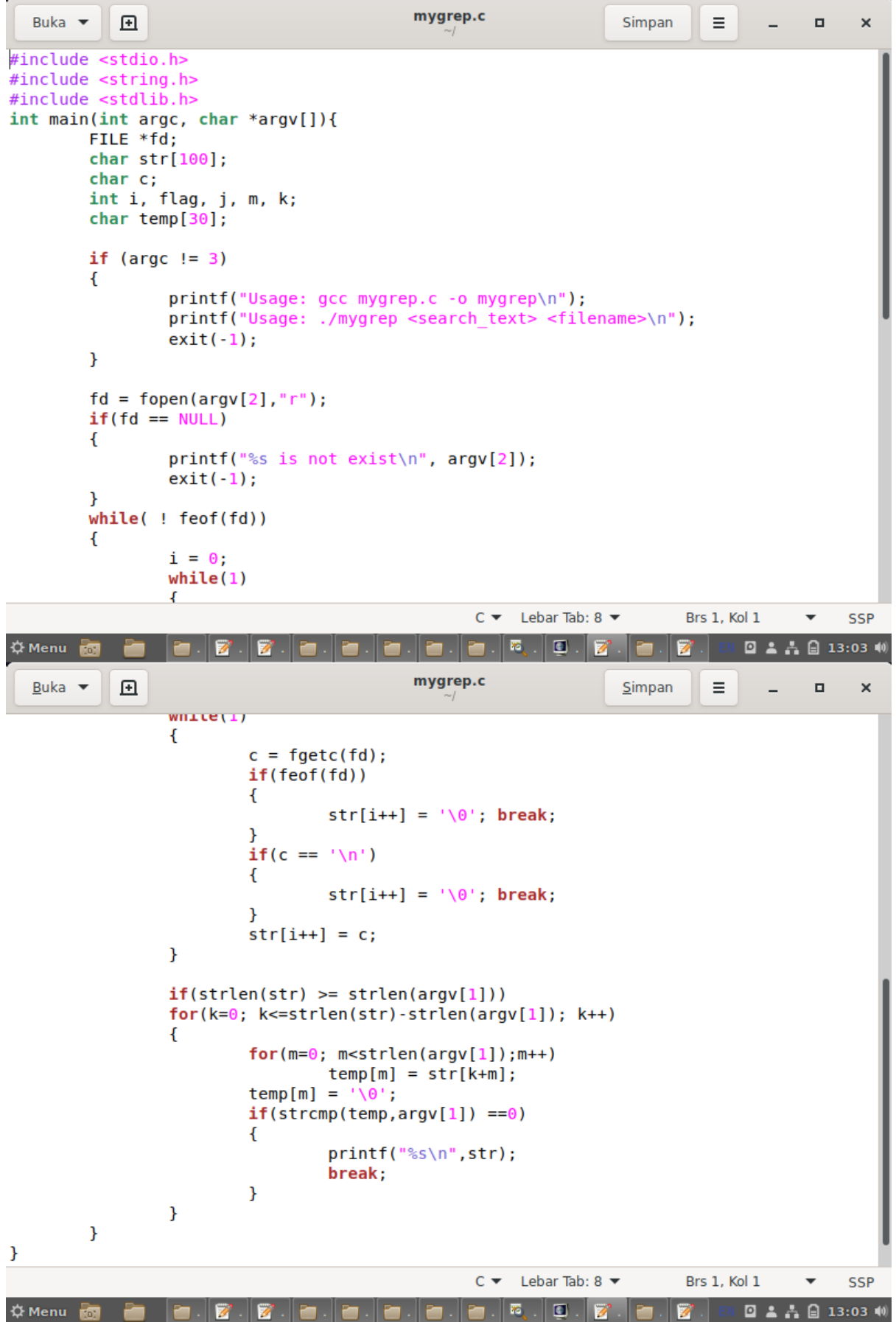
### 1. File list.c



```
#include <stdio.h>
#include <dirent.h>
int 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);
}
```

## 2. File mygrep.c



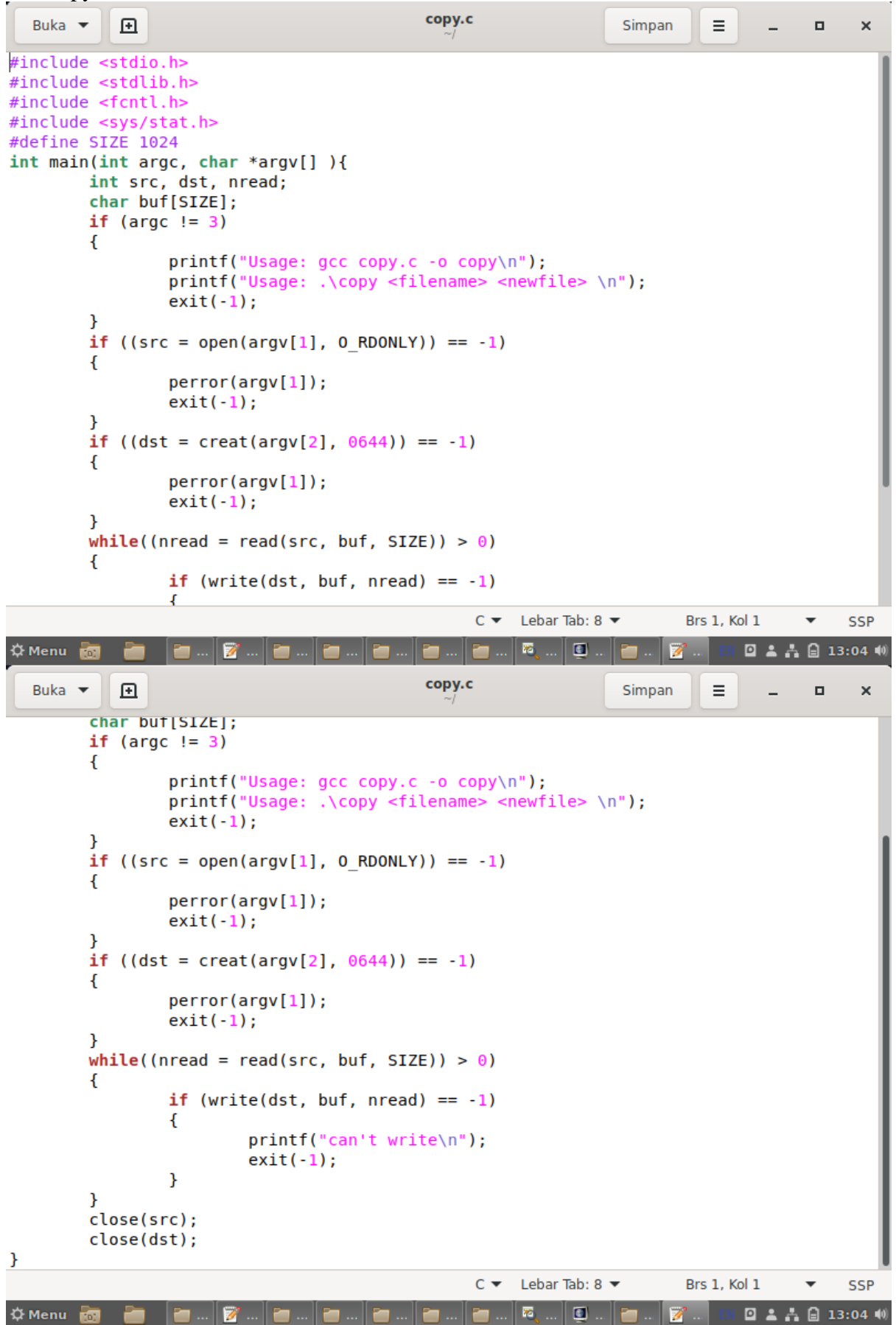
```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
int main(int argc, char *argv[]){
    FILE *fd;
    char str[100];
    char c;
    int i, flag, j, m, k;
    char temp[30];

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

    fd = fopen(argv[2], "r");
    if(fd == NULL)
    {
        printf("%s is not exist\n", argv[2]);
        exit(-1);
    }
    while( ! feof(fd))
    {
        i = 0;
        while(1)
        {
            c = fgetc(fd);
            if(feof(fd))
            {
                str[i++] = '\0'; break;
            }
            if(c == '\n')
            {
                str[i++] = '\0'; break;
            }
            str[i++] = c;
        }

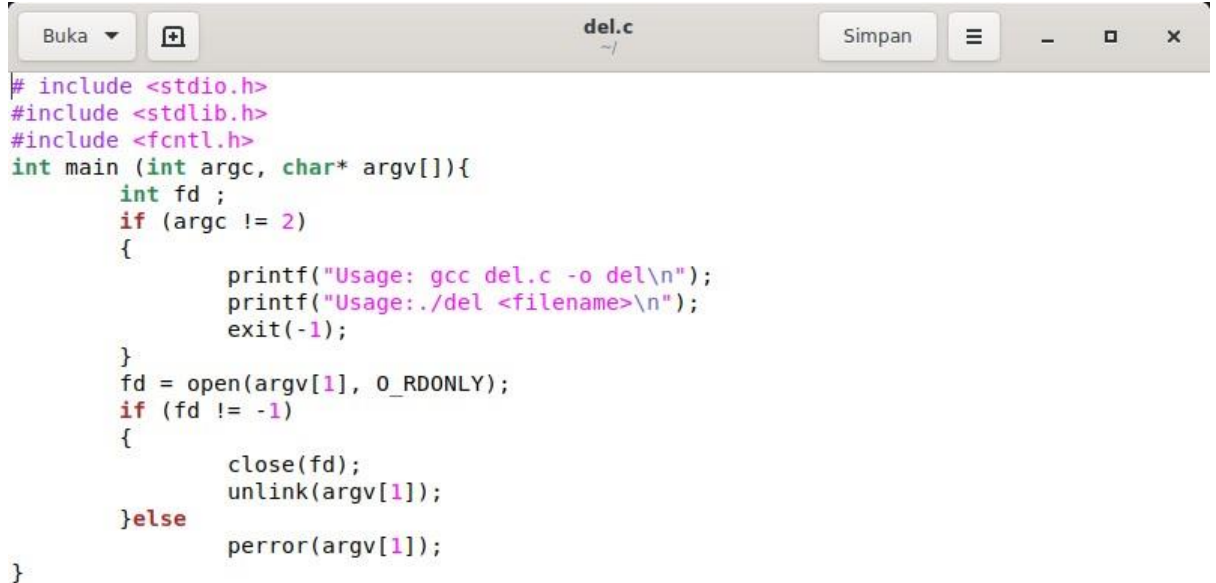
        if(strlen(str) >= strlen(argv[1]))
        for(k=0; k<=strlen(str)-strlen(argv[1]); k++)
        {
            for(m=0; m<strlen(argv[1]);m++)
                temp[m] = str[k+m];
            temp[m] = '\0';
            if(strcmp(temp,argv[1]) ==0)
            {
                printf("%s\n",str);
                break;
            }
        }
    }
}
```

### 3. File copy.c



```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <sys/stat.h>
#define SIZE 1024
int 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);
    }
    while((nread = read(src, buf, SIZE)) > 0)
    {
        if (write(dst, buf, nread) == -1)
        {
            printf("can't write\n");
            exit(-1);
        }
    }
    close(src);
    close(dst);
}
```

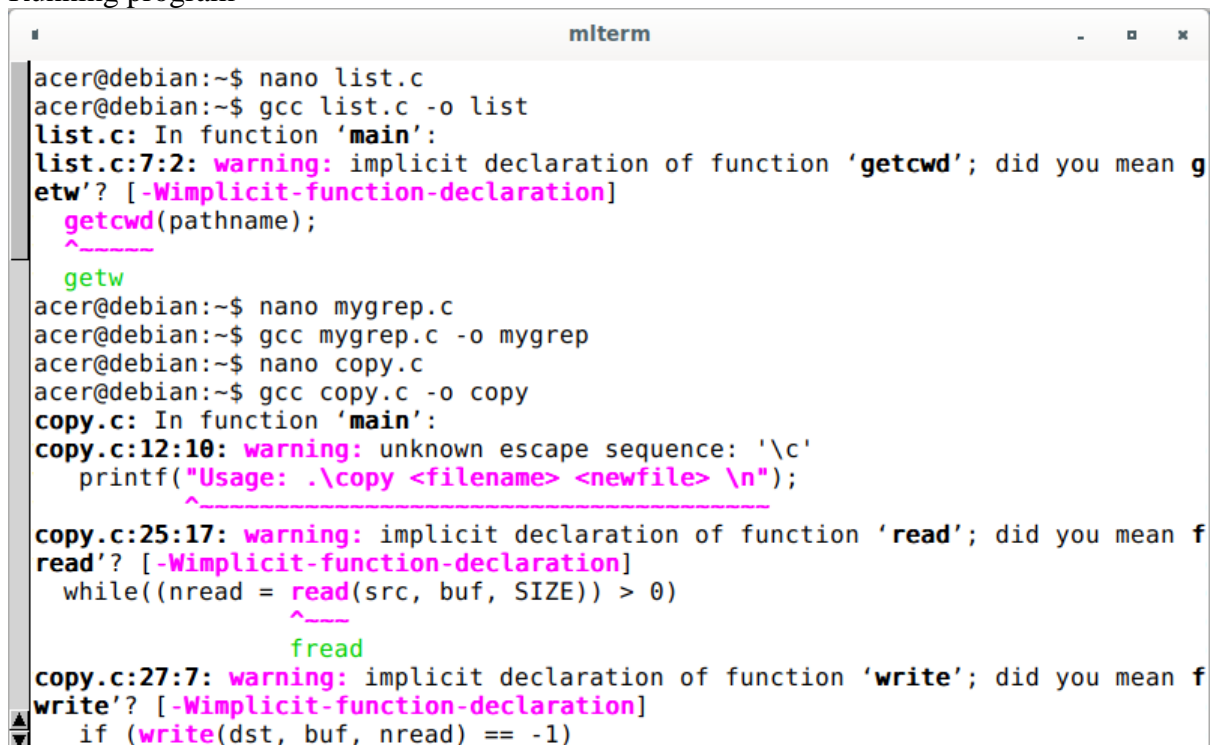
#### 4. File del.c



```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
int 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]);
}
```



#### 5. Running program



```
acer@debian:~$ nano list.c
acer@debian:~$ gcc list.c -o list
list.c: In function 'main':
list.c:7:2: warning: implicit declaration of function 'getcwd'; did you mean 'getw'? [-Wimplicit-function-declaration]
    getcwd(pathname);
    ^~~~~~
    getw
acer@debian:~$ nano mygrep.c
acer@debian:~$ gcc mygrep.c -o mygrep
acer@debian:~$ nano copy.c
acer@debian:~$ gcc copy.c -o copy
copy.c: In function 'main':
copy.c:12:10: warning: unknown escape sequence: '\c'
    printf("Usage: .\copy <filename> <newfile> \n");
           ^~~~~~
copy.c:25:17: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
    while((nread = read(src, buf, SIZE)) > 0)
                  ^~~~~~
                  fread
copy.c:27:7: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
    if (write(dst, buf, nread) == -1)
```

```
mlterm
ah11 e ((n read = read(src, buf, SIZE)) > 0)

        bread
copy.c:27:7: warning: implicit declaration of function 'write'; did you mean f
write'? [-Wimplicit-function-declaration]
    if (write(dst, buf, nread) == -1)
        ^
        fwrite
copy.c:33:2: warning: implicit declaration of function 'ctose'; did you mean p
close'? [-Wimplicit-function-declaration]
    close(src);
    ^
    pclose
acer@debian:~$ nano del.c
acer@debian:~$ gcc del.c -o del
del.c:15:3: warning: implicit declaration of function 'close'; did you mean 'p
ctose'? [-Wimplicit-function-declaration]
    close(fd);
    ^
    pclose
del.c:16:3: warning: implicit declaration of function 'unlink'; did you mean u
nix'? [-Wimplicit-function-declaration]
    unlink(argv[1]);
```

```
mlterm

    close(fd);

    pclose
del.c:16:3: warning: implicit declaration of function 'unlink'; did you mean u
nix'? [-Wimplicit-function-declaration]
    unlink(argv[1]);

    tiff
acer@debian:~$ ./list
Error
acer@debian:~$ ls
a.out  del.c  fappend  fread  list  mygrep.c  Templat
copy   Destop  fappend.c  fread.c  list.c  nano.save  Unduhan
copy.c  dirlist.c  fcreate  Gambar  musik  Publik  Video
del     Dokumen  fcreate.c  1200180122.txt  mygrep  stat.c
acer@debian:~$ ./list
Error
acer@debian:~$ ./mygrep anisa1200180135.txt
1200180135.txt is not exist
acer@debian:~$ nano 1200180135.txt
acer@debian:~$ ./mygrep anisa1200180135.txt
nama = anisa
acer@debian:~$ ./copy 1200180135.txt anisa.txt
acer@debian:~$ is
```

x

mlterm

• x

```
copy.c  dirlist.c  fcreate  Gambar  Musik  Publik  Video
del      Dokumen  fcreate.c  1200180122.txt  mygrep  stat.c
acergdebian:~$ ./list
Error
acergdebian:~$ ./mygrep anisa1200180135.txt
1200180135.txt is not exist
acergdebian:~$ nano 1200180135.txt
acergdebian:~$ ./mygrep anisa1200180135.txt
nama = anisa
acergdeb1an:~$ ./copy T200180135.txt an1sa.txt
acergdeb1an:~$ Ts
an1sa.txt  del.c      f append.c  Gazibar  Hus1k  stat.c
a.out      Destop      T 200180122.txt  myg rep  Tezipla t
copy       dirlist.c   fcreate.c   1200180135.txt  mygrep.c  Unduhan
copy.c     Dokumen    f read      test      nano.save  V1deo
              f read.c   T1st.c      Pub11k
acergdeb1an:~$ ./deT an1sa.txt
acergdeb1an:~$ Ts
a.out      Destop      le reate    T 200180122.txt  myg rep  Tezipla t
copy       dirlist.c   fcreate.c   1200180135.txt  mygrep.c  Unduhan
copy.c     Dokumen    f read      test      nano.save  V1deo
del        f append   f read.c    T1st.c     Pub11k
del.c      l append.c  Gaziba r    Hus1k      stat.c
¿ ac e rideb1a n: ~$
```