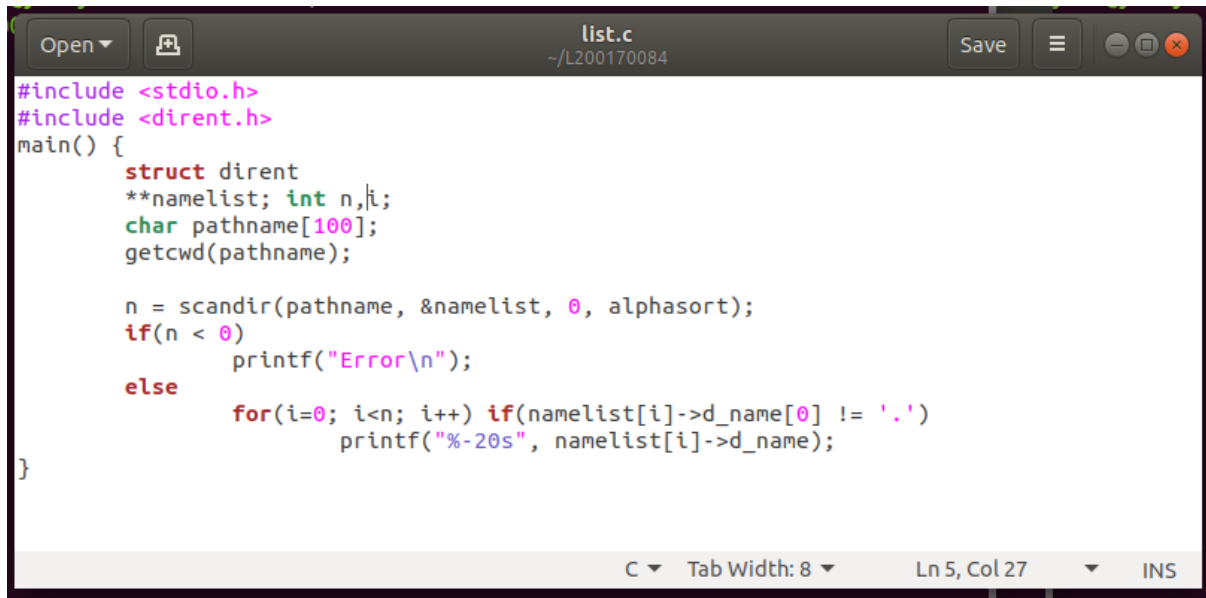# MODUL 10

Nama : Muhammad Khotibul Umam Senoaji

NIM   : L200170050

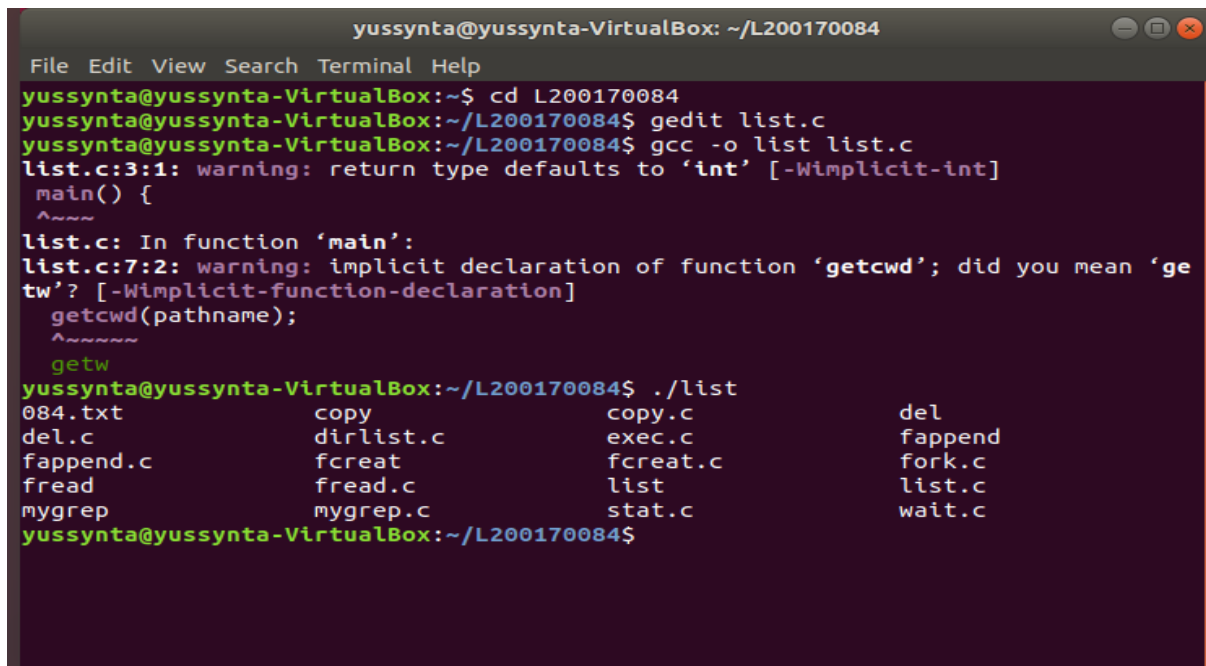Kelas : C

1. Masuk ke direktori nim, kemudian ketik "gedit list.c", tulis Kode Program dan save
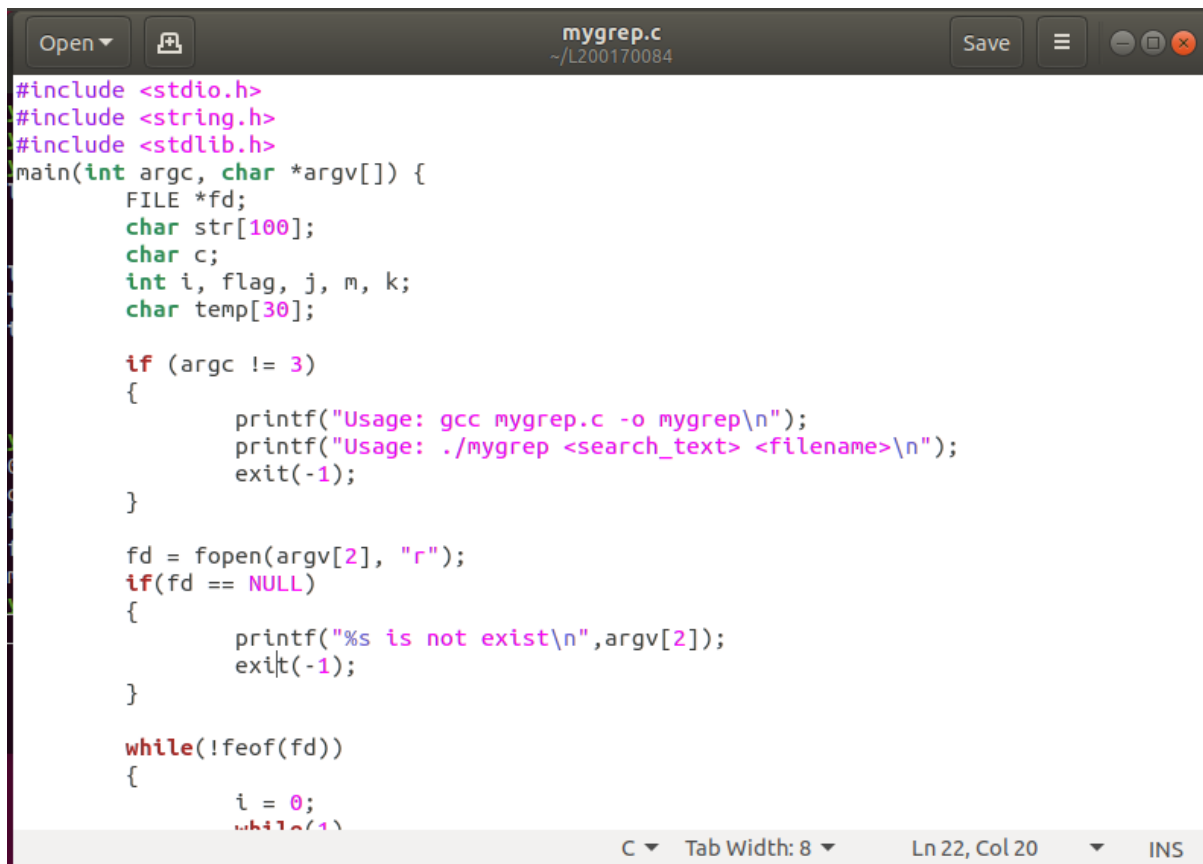
2. Compile dengan "gcc –o list list.c"(enter), kemudian ketikkan "./list"(enter). Fungsi list itu sama seperti fungsi ls

3. Kemudian lanjutkan dengan "gedit mygrep.c", tulis Kode Program seperti pada gambar di bawah dan save

```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 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)
```
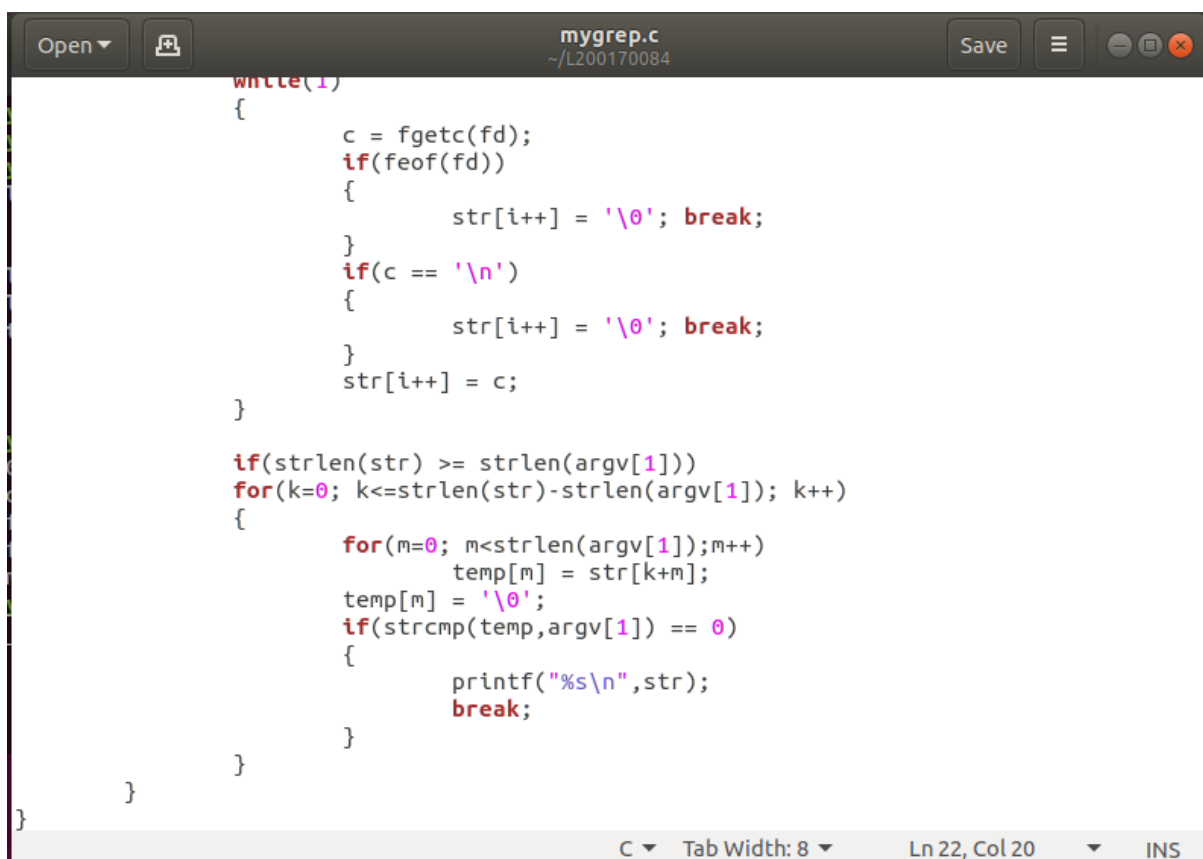
```c
        while(1)
        {
                c = fgetc(fd);
                if(feof(fd))
                {
                        str[i++] = '\0'; break;
                }
                if(c == '\n')
                {
                        str[i++] = '\0'; break;
                }
                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;
                }
        }
        }
}
```
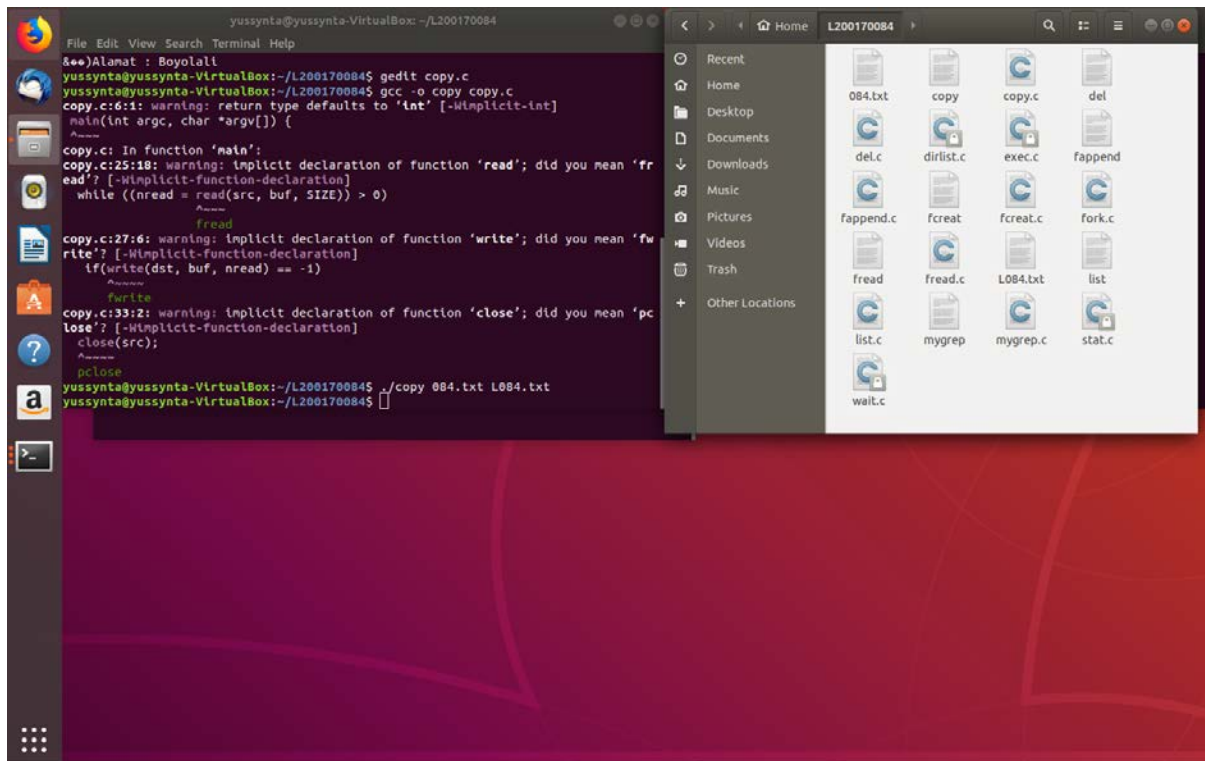
4. Kemudian compile dengan "gcc –o mygrep mygrep.c", kemudian ketikkan "./mygrep Nama 084.txt", **NB:** Nama = kata yang di cari dalam 084.txt

```
                        yussynta@yussynta-VirtualBox: ~/L200170084
 File  Edit  View  Search  Terminal  Help
 main() {
 ^~~~
list.c: In function 'main':
list.c:7:2: warning: implicit declaration of function 'getcwd'; did you mean 'ge
tw'? [-Wimplicit-function-declaration]
  getcwd(pathname);
  ^~~~~~
  getw
yussynta@yussynta-VirtualBox:~/L200170084$ ./list
084.txt              copy               copy.c              del
del.c                dirlist.c          exec.c              fappend
fappend.c            fcreat             fcreat.c            fork.c
fread                fread.c            list                list.c
mygrep               mygrep.c           stat.c              wait.c
yussynta@yussynta-VirtualBox:~/L200170084$ gedit mygrep.c
yussynta@yussynta-VirtualBox:~/L200170084$ gcc -o mygrep mygrep.c
mygrep.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(int argc, char *argv[]) {
 ^~~~
yussynta@yussynta-VirtualBox:~/L200170084$ ./mygrep Nama 084.txt
Nama : Yussynta Dewi A.P
yussynta@yussynta-VirtualBox:~/L200170084$ ./mygrep Alamat 084.txt
&◆◆)Alamat : Boyolali
yussynta@yussynta-VirtualBox:~/L200170084$
```
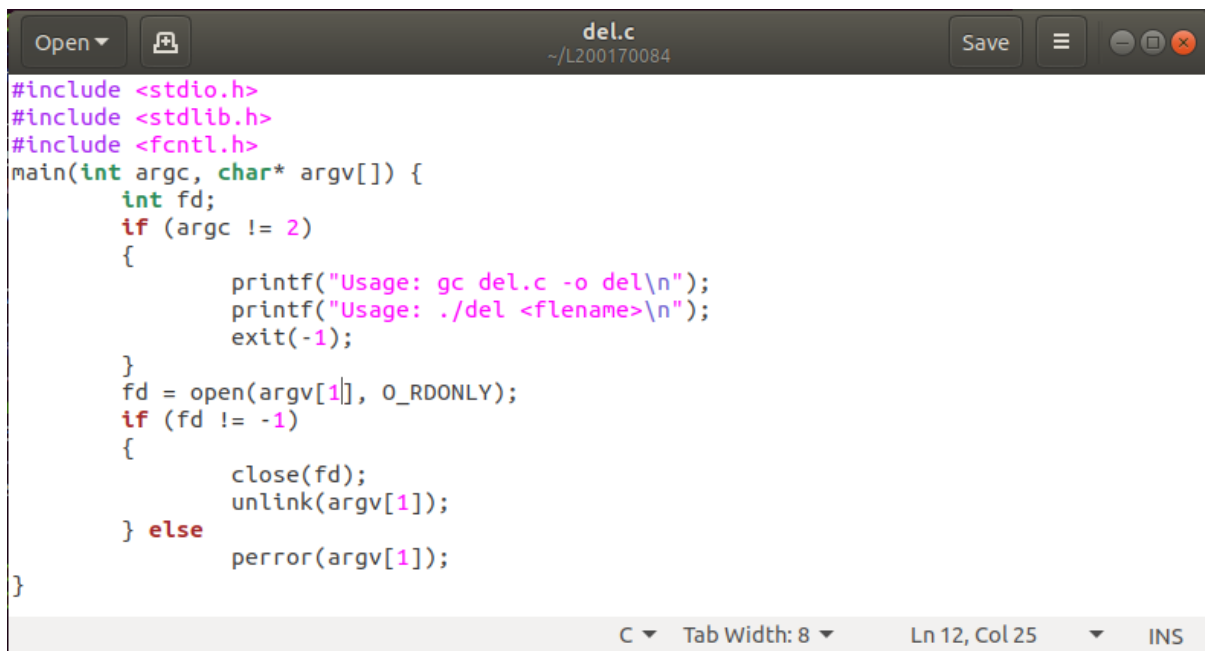
5. Lanjutkan dengan "gedit copy.c", tuliskan Kode Program seperti pada gambar di bawah dan save

```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);
        }
        while ((nread = read(src, buf, SIZE)) > 0)
        {
                if(write(dst, buf, nread) == -1)
                {
                        printf("can't write\n");
                        exit(-1);
                }
        }
        close(src);
        close(dst);
}
```

6. Kemudian compile "gcc –o copy copy.c"(enter), kemudian ketikkan "./copy 084.txt L084.txt", **NB:** seperti fungsi copy biasa, file 084.txt akan tercopy dengan nama baru L084.txt. bisa melihatnya dengan membuka dokomennya atau dengan perintah ls, seperti pada gambar di bawah:

7. Lanjutkan dengan "gadit del.c", tulis Kode Programseperti pda gabar di bawah ini dan klik save


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

8. Compile file "gcc –o del del.c"(enter), kemudian tuliskan "./del L084.txt", untuk menghapus file L084.txt, bisa di lihat pada gambar di bawah: