## 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

```
list.c
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                                                                             ≣
                                                                                 Open ▼
#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);
                                             C ▼ Tab Width: 8 ▼
                                                                   Ln 5, Col 27 ▼
                                                                                    INS
```

2. Compile dengan "gcc –o list list.c" (enter), kemudian ketikkan "./list" (enter). Fungsi list itu sama seperti fungsi ls

```
yussynta@yussynta-VirtualBox: ~/L200170084
                                                                                         File Edit View Search Terminal Help
yussynta@yussynta-VirtualBox:~$ cd L200170084
yussynta@yussynta-VirtualBox:~/L200170084$ gedit list.c
yussynta@yussynta-VirtualBox:~/L200170084$ gcc -o list list.c
list.c:3:1: warning: return type defaults to 'int' [-Wimplicit-int]
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);
yussynta@yussynta-VirtualBox:~/L200170084$ ./list
                       copy
dirlist.c
                                                                       del
084.txt
                                               copy.c
del.c
                                                                       fappend
                                               exec.c
fappend.c
                       fcreat
                                               fcreat.c
                                                                       fork.c
                       fread.c
                                               list
                                                                       list.c
fread
тудгер
                       mygrep.c
                                               stat.c
                                                                       wait.c
yussynta@yussynta-VirtualBox:~/L200170084$
```

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

```
mygrep.c
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                                                                              ≣
                                                                                   #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 ▼ Tab Width: 8 ▼
                                                                   Ln 22. Col 20
                                                                                     INS
```

```
mygrep.c
Open ▼
         Æ
                                                                               \equiv
                                                                                    {
                       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++)</pre>
               {
                       for(m=0; m<strlen(argv[1]);m++)</pre>
                                temp[m] = str[k+m];
                       temp[m] = '\0';
                       if(strcmp(temp,argv[1]) == 0)
                       {
                                printf("%s\n",str);
                                break;
                       }
               }
      }
                                             C ▼ Tab Width: 8 ▼
                                                                    Ln 22, Col 20
                                                                                       INS
```

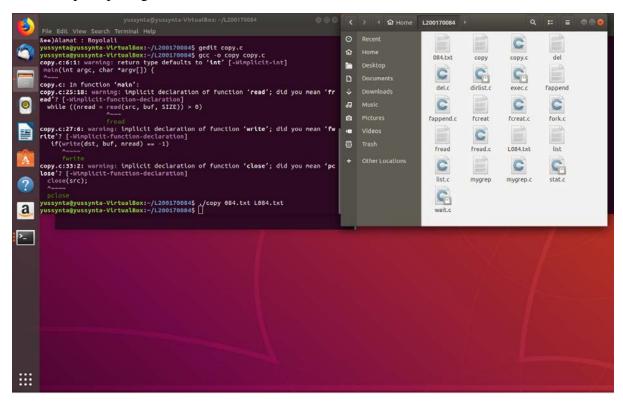
4. Kemudian compile dengan "gcc –o mygrep mygrep.c", kemudian ketikkan "./mygrep Nama 084.txt", **NB:** Nama = kata yang di cari dalam 084.txt

```
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);
yussynta@yussynta-VirtualBox:~/L200170084$ ./list
084.txt
                    сору
                                                             del
                                        copy.c
                    dirlist.c
del.c
                                        exec.c
                                                             fappend
fappend.c
                                        fcreat.c
                                                             fork.c
                    fcreat
                                        list
                                                             list.c
fread
                    fread.c
                    mygrep.c
                                        stat.c
                                                             wait.c
тудгер
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

```
сору.с
 Open ▼
            æ
#include
#include
           <stdlib.h>
          <fcntl.h>
#include
#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);
                                             C ▼ Tab Width: 8 ▼ Ln 34, Col 20 ▼ INS
```

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

```
del.c
           Æ
                                                                                ▤
                                                                                    Open ▼
#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]);
                                                   Tab Width: 8 ▼
                                                                     Ln 12, Col 25
                                                                                       INS
```

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:

