TUGAS

PRAKTIKUM SISTEM OPERASI MODUL 10 SIMULASI COMMAND (PERINTAH)



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PROGRAM STUDI TEKNIK INFORMATIKA

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UNIVERSITAS MUHAMMADIYAH SURAKARTA TAHUN 2022/2023

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Langkah Kerja

1. Program untuk mensimulasi perintah 'ls'.

```
list.c: In function 'main':
list.c:7:9: warning: implicit declaration of function 'getcwd'; did you mean 'getw'? [-Wimplicit-function-declaration]
7 | getcwd(pathname);
7 getw
dan@dian-VirtualBox:-$ ./list
Documents
Casktop Documents
fread
                                                                                                           Pictures
fappend.c
list.c
                                                                                                                                                                 Templates
fcre
                                                     Downloads
                                                                                Music
                                                                                                                                      Public
                                                                                      fappend fa
list
dian@dian-VirtualBox:~$
ate.c
stat.c
                               test.txt
                                                          wait.c
```

Screenshot dari terminal list.c

```
list.c
            Open ~
                                                                             Save
                                                                 *Untitled Document 2
   #include <stdio.h>
 2 #include <dirent.h>
 3 main(){
           struct dirent
           **namelist; int n,i;
 6
           char pathname[100];
           getcwd(pathname);
 7
 8
 9
           n = scandir(pathname, &namelist, 0, alphasort);
10
           if(n < 0)
11
                   printf("Error/n");
           else
12
                   for(i=0; i<n; i++) if(namelist[i]->d_name[0] != '.')
13
14
                           printf("%-20s", namelist[i]->d_name);
15 }
```

Screenshot dari kode list.c

2. Program untuk mensimulasi perintah 'grep'.

```
dtan@dtan-VtrtualBox:-$ gcc mygrep.c -o mygrep
mygrep.c:4:1: warning: return type defaults to 'int' [-Himplicit-int]
4 | main(int argc,char *argv[]){
           .an-VirtualBox:~$ ./mygrep Hai test.txt
      @dian-VirtualBox:~$
```

Screenshot dari terminal mygrep.c

```
Open V
                                                                                                      mygrep.c
                                                                                                                                                                                          =
                                                                                                                                                                              Save
                                list.c
                                                                                                    mygrep.c
                                                                                                                                                                             test.txt
  1 #include <stdio.h>
  3 #include <string.h>
4 main(int argc,char *argv[]){
5    FILE *fd;
                 char str[100];
char c;
int i, flag, j, m, k;
char temp[30];
  8
9
10
                  if (argc != 3)
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
                              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))
                               while(1)
                                           c = fgetc(fd);
if(feof(fd))
                                                        str[i++] = '\0'; break;
                                           if(c == '\n')
 35
36
37
38
                                           {
                                                       str[i++] = '\0'; break;
                                           str[i++] = c;
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54 }
                              }
                              if(strlen(str) >= strlen(argv[1]))
for(k=0; k<=strlen(str)-strlen(argv[1]); k++)</pre>
                                           if(strcmp(temp,argv[1]) == 0)
                                                        printf("%s\n",str);
                                                        break;
                                           }
                              }
                 }
```

Screenshot dari kode mygrep.c

3. Program untuk mensimulasi perintah 'cp'.

Screenshot dari terminal copy.c

```
list.c
                                               mygrep.c
                                                                                    сору.с
 1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <fcntl.h>
 4 #include <sys/stat.h>
5 #define SIZE 1024
 6 main(int argc,char *argv[]){
7
          int src, dst, nread;
8
          char buf[SIZE];
9
           if (argc != 3)
10
          {
11
                   printf("Usage; gcc copy.c -o copy\n");
                   printf("Usage; ./copy <search_text> <newfile>\n");
12
13
                   exit(-1);
14
15
           if ((src = open(argv[1], 0_RDONLY)) == -1)
16
17
                   perror(argv[1]);
18
                   exit(-1);
19
           if ((dst = creat(argv[2], 0644)) == -1)
20
21
22
                   perror(argv[1]);
23
                   exit(-1);
24
          while ((nread = read(src, buf, SIZE)) > 0)
25
26
                   if (write(dst, buf, nread)== -1)
27
28
                   {
29
                           printf("can't write\n");
                           exit(-1);
30
31
                   }
32
           close(src);
33
34
           close(dst);
35 }
```

Screenshot dari kode copy.c

4. Program untuk mensimulasi perintah 'rm'.

Screenshot dari terminal del.c



Screenshot dari kode del.c