

PRAKTIKUM SISTEM OPERASI
MODUL 9



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E

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TAHUN 2022/2023

Membuat sebuah file dan menuliskan data di dalamnya.

```
apis@apis-VirtualBox:~$ nano fcreate.c
apis@apis-VirtualBox:~$ gcc -o fcreate fcreate.c
fcreate.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
  6 | main(int argc, char *argv[]) {
    | ^~~~~
fcreate.c: In function 'main':
fcreate.c:20:11: warning: implicit declaration of function 'read'; did you mean
'fread'? [-Wimplicit-function-declaration]
  20 | while((n=read(0, buf, sizeof(buf))) > 0){
    |           ^~~~~
fcreate.c:22:3: warning: implicit declaration of function 'write'; did you mean
'fwrite'? [-Wimplicit-function-declaration]
  22 | write(fd, buf, len);
    | ^~~~~
fcreate.c:24:2: warning: implicit declaration of function 'close'; did you mean
'pclose'? [-Wimplicit-function-declaration]
  24 | close(fd);
    | ^~~~~
apis@apis-VirtualBox:~$ ./fcreate test.txt
./fcreate: command not found
apis@apis-VirtualBox:~$ ./fcreate test.txt
Tekan ctrl+D di akhir baris:
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apis@apis-VirtualBox:~$
```

fcreate.c code

```
GNU nano 4.8 fcreate.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>

main(int argc, char *argv[]) {
    int fd, n, len;
    char buf[100];
    if (argc != 2) {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }
    fd = open(argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0644);
    if (fd < 0) {
        printf("file creation problem\n");
        exit(-1);
    }
    printf("Tekan ctrl+D di akhir baris:\n");

    while((n=read(0, buf, sizeof(buf))) > 0){
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```

Membaca sebuah file dan menampilkan isinya di layar

```
apis@apis-VirtualBox:~$ nano fread.c
apis@apis-VirtualBox:~$ gcc -o fread fread.c
fread.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
  5 | main(int argc,char *argv[] ){
    | ^~~~~
fread.c: In function 'main':
fread.c:22:8: warning: implicit declaration of function 'read'; did you mean 'f
read'? [-Wimplicit-function-declaration]
  22 |   while(read(fd,buf,sizeof(buf))>0)
    |         ^~~~~
fread.c:25:2: warning: implicit declaration of function 'close'; did you mean '
pclose'? [-Wimplicit-function-declaration]
  25 |   close(fd);
    |   ^~~~~
apis@apis-VirtualBox:~$ ./fread test.txt
Isi dari file test.txt adalah :
L200210224
apis@apis-VirtualBox:~$
```

fread.c code

```
GNU nano 4.8      fread.c
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>

main(int argc,char *argv[] ){
    int fd,i ;
    char buf[100];
    if (argc < 2)
    {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }

    fd = open(argv[1], O_RDONLY);
    if(fd == -1)
    {
        printf("%s file does not exist\n",argv[1]);
        exit(-1);
    }

    printf("Isi dari file %s adalah : \n",argv[1]);
    while(read(fd,buf,sizeof(buf))>0)
        printf("%s", buf);

    close(fd);
}
```

[Read 26 lines]

^G Get Help	^O Write Out	^W Where Is	^K Cut Text	^J Justify
^X Exit	^R Read File	^_\ Replace	^U Paste Text	^T To Spell

Menambah isi file.

```
apis@apis-VirtualBox:~$ nano fappend.c
apis@apis-VirtualBox:~$ gcc -o fappend fappend.c
fappend.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
  6 | main(int argc, char *argv[] ){
    | ^~~~~
fappend.c: In function 'main':
fappend.c:19:11: warning: implicit declaration of function 'read'; did you mean
'fread'? [-Wimplicit-function-declaration]
  19 | while((n=read(0, buf, sizeof(buf))) > 0 ){
    |           ^~~~~
    |           fread
fappend.c:21:3: warning: implicit declaration of function 'write'; did you mean
'fwrite'? [-Wimplicit-function-declaration]
  21 | write(fd, buf, len);
    |     ^~~~~
    |     fwrite
fappend.c:23:2: warning: implicit declaration of function 'close'; did you mean
'pclose'? [-Wimplicit-function-declaration]
  23 | close(fd);
    |    ^~~~~
    |    pclose
apis@apis-VirtualBox:~$ ./fappend test.txt
Mohamad Hafiz Saputro
apis@apis-VirtualBox:~$ ./fread test.txt
Isi dari file test.txt adalah :
L200210224
Mohamad Hafiz Saputro
apis@apis-VirtualBox:~$
```

fappend.c code

```
GNU nano 4.8 fappend.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>

main(int argc, char *argv[] ){
    int fd, n, len;
    char buf[100];
    if (argc != 2) {
        printf("Usage: ./a.out <filename>\n");
        exit(-1);
    }
    fd = open(argv[1], O_APPEND | O_WRONLY | O_CREAT, 0644);
    if (fd < 0){
        perror(argv[1]);
        exit(-1);
    }

    while((n=read(0, buf, sizeof(buf))) > 0 ){
        len = strlen(buf);
        write(fd, buf, len);
    }
    close(fd);
}
```

Kesimpulan

- Saat membuat file dan menuliskan data di dalamnya kode 'fcreate.c' akan di eksekusi.
- Saat membaca file dan menampilkan isinya dilayar kode 'fread.c' akan di eksekusi,kode ini tidak merubah sisi dari file ,hanya untuk menampilkan isi dari file saja.
- Saat akan menambah isi file kode 'fappend.c' akan di eksekusi.Isi dari file sebelumnya akan ditambah.