

PRAKTIKUM SISTEM OPERASI
MODUL 9



Disusun oleh :

Stiven Akbar Firmansyah

L200210226

PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS KOMUNIKASI DAN
INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA TAHUN

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Langkah Kerja

Membuat sebuah file dan menuliskan data di dalamnya.

Kode Program :

```
GNU nano 6.2 fcreate.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>
#include <unistd.h>

int 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

Kode Program :

```
GNU nano 6.2 fread.c
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>

int 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 Doesn't 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);
}
```

Menambah isi file

Kode Program :

```
GNU nano 6.2 fappend.c
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>

int 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);
}
```

Hasil

```
izam@izan-VirtualBox:~$ nano fcreate.c
izam@izan-VirtualBox:~$ nano fread.c
izam@izan-VirtualBox:~$ nano fappend.c
izam@izan-VirtualBox:~$ gcc -o fcreate fcreate.c
cc1: fatal error: fcreate.c: No such file or directory
compilation terminated.
izam@izan-VirtualBox:~$ sudo su
[sudo] password for izam:
Sorry, try again.
[sudo] password for izam:
root@izan-VirtualBox:~$ gcc -o fcreate fcreate.c
fcreate.c:7:1: warning: return type defaults to 'int' [-Wimplicit-int]
7 | main(int argc, char*argv[]){
  | ^~~~~
root@izan-VirtualBox:~$ nano fcreate.c
root@izan-VirtualBox:~$ gcc -o fcreate fcreate.c
root@izan-VirtualBox:~$ ./fcreate test.txt
Tekan CTRL+D di akhir baris
root@izan-VirtualBox:~$ gcc -o fappend fappend.c
fappend.c:7:1: warning: return type defaults to 'int' [-Wimplicit-int]
7 | main(int argc, char*argv[]){
  | ^~~~~
root@izan-VirtualBox:~$ nano fappend.c
root@izan-VirtualBox:~$ ./fappend test.txt
^X
^Z
[1]+  Stopped                  ./fappend test.txt
root@izan-VirtualBox:~$ gcc -o fread fread.c
fread.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
6 | main(int argc, char *argv[]){
  | ^~~~~
root@izan-VirtualBox:~$ nano fread.c
root@izan-VirtualBox:~$ gcc -o fappend fappend.c
root@izan-VirtualBox:~$ gcc -o fread fread.c
root@izan-VirtualBox:~$ gcc -o fcreate fcreate.c
root@izan-VirtualBox:~$ ./fcreate test.txt
Tekan CTRL+D di akhir baris
root@izan-VirtualBox:~$
```