

PRAKTIKUM SISTEM OPERASI



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A. Membuat sebuah file dan menuliskan data di dalamnya.

Kode Program 'fcreate.c'

```
C fcreate.c X C fread.c C fappend.c
home > farizhafidz > Documents > Modul_9 > C fcreate.c
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <string.h>
4  #include <fcntl.h>
5
6  int main (int argc, char*argv[]) {
7      int fd, n, len;
8      char buf[100];
9      if (argc != 2)
10     {
11         printf("Usage: ./a.out <filename>\n");
12         exit(-1);
13     }
14     fd = open(argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0644);
15     if (fd < 0)
16     {
17         printf("File creation problem\n");
18         exit(-1);
19     }
20     printf("Tekan Ctrl+C di akhir baris:\n");
21
22     while((n = read(0, buf, sizeof(buf))) > 0)
23     {
24         len = strlen(buf);
25         write(fd, buf, len);
26     }
27
28     close(fd);
29 }
```

Terminal Kompiler gcc

```
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ gcc -o fcreate fcreate.c
fcreate.c: In function 'main':
fcreate.c:22:16: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
   22 |     while((n = read(0, buf, sizeof(buf))) > 0)
      |                ^~~~~
      |                fread
fcreate.c:25:9: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
   25 |         write(fd, buf, len);
      |         ^~~~~
      |         fwrite
fcreate.c:28:5: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
   28 |         close(fd);
      |         ^~~~~
      |         pclose
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ ./fcreate test.txt
Tekan Ctrl+C di akhir baris:
Halo Gaess David Disini!^C
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$
```

B. Membaca sebuah file dalam menampilkan isinya di layar.

Kode Program 'fread.c'

```
C fread.c  X  C fcreate.c  C fappend.c
home > Farizhafidz > Documents > Modul_9 > C fread.c
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <fcntl.h>
4
5  int main (int argc, char*argv[]) {
6      int fd, i;
7      char buf[100];
8      if (argc < 2)
9      {
10         printf("Usage: ./a.out <filename>\n");
11         exit(-1);
12     }
13
14     fd = open(argv[1], O_RDONLY);
15     if (fd == -1)
16     {
17         printf("%s file does not exist\n", argv[1]);
18         exit(-1);
19     }
20
21     printf("Isi dari file %s adalah : \n", argv[1]);
22     while(read(fd, buf, sizeof(buf)) > 0)
23         printf("%s", buf);
24
25     close(fd);
26
27 }
```

Terminal Kompiler gcc

```
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ gcc fread.c
fread.c: In function 'main':
fread.c:22:11: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
 22 |     while(read(fd, buf, sizeof(buf)) > 0)
    |           ^~~~~
    |           fread
fread.c:25:5: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
 25 |     close(fd);
    |     ^~~~~
    |     pclose
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ ./a.out test.txt
Isi dari file test.txt adalah :
Halo Gaess David Disini
```

C. Menambah isi file.

Kode Program 'fappend.c'

```
C fappend.c x C fread.c C fcreate.c
home > farizhafidz > Documents > Modul_9 > C fappend.c
1  #include <stdio.h>
2  #include <string.h>
3  #include <stdlib.h>
4  #include <fcntl.h>
5  int main (int argc, char *argv[]) {
6      int fd, n, len;
7      char buf[100];
8      if (argc != 2)
9      {
10         printf("Usage: ./a.out <filename>\n");
11         exit(-1);
12     }
13     fd = open(argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0644);
14     if (fd < 0)
15     {
16         perror(argv[1]);
17         exit(-1);
18     }
19
20     while((n = read(0, buf, sizeof(buf))) > 0)
21     {
22         len = strlen(buf);
23         write(fd, buf, len);
24     }
25
26     close(fd);
27 }
```

Terminal Kompiler gcc

```
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ gcc fappend.c
fappend.c: In function 'main':
fappend.c:20:16: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
20 |     while((n = read(0, buf, sizeof(buf))) > 0)
    |                ^~~~~
    |                fread
fappend.c:23:9: warning: implicit declaration of function 'write'; did you mean 'fwrite'? [-Wimplicit-function-declaration]
23 |     write(fd, buf, len);
    |     ^~~~~
    |     fwrite
fappend.c:26:5: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
26 |     close(fd);
    |     ^~~~~
    |     pclose
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ ./a.out test.txt
Halo Gaess kembali lagi bersama saya David di channel Gadgetin^C
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$
```

```
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ gcc fread.c
fread.c: In function 'main':
fread.c:22:11: warning: implicit declaration of function 'read'; did you mean 'fread'? [-Wimplicit-function-declaration]
22 |     while(read(fd, buf, sizeof(buf)) > 0)
    |           ^~~~~
    |           fread
fread.c:25:5: warning: implicit declaration of function 'close'; did you mean 'pclose'? [-Wimplicit-function-declaration]
25 |     close(fd);
    |     ^~~~~
    |     pclose
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$ ./a.out test.txt
Isi dari file test.txt adalah :
Halo Gaess kembali lagi bersama saya David di Channel Gadgetin
farizhafidz@farizhafidz-VirtualBox:~/Documents/Modul_9$
```