# PRAKTIKUM SISTEM OPERASI MODUL 9 FILE SYSTEM CALL



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2021

#### Praktikum 1

Membuat sebuah file dan menuliskan data di dalamnya.

```
fcreate.c
  Open ~
            [+]
                                                          Save
                                                                  \equiv
                                                                       _ _ X
                                      ~/Documents
 1 #include <stdio.h>
 2 #include <stdlib.h>
 3 #include <string.h>
 4 #include <fcntl.h>
6 main(int argc, char *argv[]) {
7     int fd, n, len;
 8
           char buf[100];
           if(argc != 2)
 9
10
                    printf("Usage: ./a.out <filename>\n");
11
12
                    exit(-1);
           }
13
14
15
           fd = open (argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0644);
16
17
18
           {
                    printf ("File creation problem\n");
19
20
                    exit (-1);
21
           }
22
           printf("Tekan Ctrl+D di akhir baris:\n");
23
24
           while((n = read(0, buf, sizeof(buf))) > 0)
25
26
27
                    len = strlen(buf);
28
                    write(fd, buf, len);
29
           }
30
31
           close(fd);
32 }
                                     C ~ Tab Width: 8 ~
                                                             Ln 11, Col 23
                                                                         INS
```

#### Praktikum 2

Membaca sebuah file dan menampilkan isinya di layar.

```
fread.c
                                                                  \equiv
                                                                        _ _ X
  Open ~
            ]+]
                                                          Save
                                      ~/Documents
 1 #include <stdio.h>
2 #include <stdlib.h>
 3 #include <fcntl.h>
4 main(int argc, char *argv[]) {
           int fd, i;
6
           char buf[100];
           if (argc < 2)
7
8
           {
9
                    printf("Usage: ./a.out <filename>\n");
10
                    exit(-1);
11
           }
12
           fd = open(argv[1], 0_RDONLY);
13
14
           if(fd == -1)
15
                    printf("%s file does not exist\n", argv[1]);
16
17
                    exit(-1);
18
           }
19
20
           printf("Isi dari file %s adalah : \n", argv[1]);
           while(read(fd, buf, sizeof(buf)) > 0)
    printf("%s", buf);
21
22
           close(fd);
23
24 }
                                      C ~ Tab Width: 8 ~
                                                             Ln 13, Col 29
                                                                                 INS
```

### Praktikum 3

Menambah isi file.

```
fappend.c
                                                                   \equiv
                                                                         _ D X
  Open ~
             Save
                                       ~/Documents
 1 #include <stdio.h>
 2 #include <string.h>
 3 #include <stdlib.h>
 4 #include <fcntl.h>
5 main(int argc, char *argv[]) {
6     int fd, n, len;
7     char buf[100];
           if (argc != 2)
8
9
           {
10
                    printf("Usage: ./a.out <filename>\n");
11
                    exit(-1);
12
           }
13
14
           fd = open(argv[1], 0_APPEND|0_WRONLY|0_CREAT, 0644);
           if(fd < 0)
15
16
            {
17
                    perror(argv[1]);
18
                    exit(-1);
           }
19
20
           while((n = read(0, buf, sizeof(buf))) > 0)
21
22
           {
23
                    len = strlen(buf);
24
                    write(fd, buf, len);
25
           }
26
           close(fd);
27
28 }
                                      C ~ Tab Width: 8 ~
                                                                Ln 1, Col 1
                                                                                  INS
```

```
dianputri@dianputri-VirtualBox: ~/Documents Q =
fappend.c: In function 'main':
fappend.c:21:20: warning: implicit declaration of function 'read'; did you mean 'fre
ad'? [-Wimplicit-function-declaration]
21 | while((n = read(0, buf, sizeof(buf))) > 0)
fappend.c:24:17: warning: implicit declaration of function 'write'; did you mean 'fw
rite'? [-Wimplicit-function-declaration]
24 | write(fd, buf, len);
fappend.c:27:9: warning: implicit declaration of function 'close'; did you mean 'pcl
ose'? [-Wimplicit-function-declaration]
27 | close(fd);
dianputri@dianputri-VirtualBox:~/Documents$ ./a.out test.txt
nim saya adalah l200210238
alamat saya di solo
fread.c: In function 'main':
fread.c:21:15: warning: implicit declaration of function 'read'; did you mean 'fread
 ? [-Wimplicit-function-declaration]
21 | while(read(fd, buf, sizeof(buf)) > 0)
fread.c:23:9: warning: implicit declaration of function 'close'; did you mean 'pclos
e'? [-Wimplicit-function-declaration]
23 | close(fd);
dianputri@dianputri-VirtualBox:~/Documents$ ./a.out test.txt
Isi dari file test.txt adalah :
halo nama saya dian
nim saya adalah l200210238
alamat saya di solo
210238
 dianputri@dianputri-VirtualBox:~/Documents$
```