Laporan Ujian Akhir Semester Praktikum – Sistem Operasi Untuk Sistem Informasi

Kelompok: A-14
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Tuliskan hasil percobaan anda di sini, sertakan screenshot.

Week 10 Problem A

Source Code:

```c
#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <sys/types.h>

#include <sys/stat.h>

#include <fcntl.h>

#include <string.h>




#define OFILE "output_problem_a.txt"




void main(void) {

  int n, off, ofd,value,value1;



  // Membuat file baru untuk proses writing

  ofd = open(OFILE, O_RDWR | O_CREAT, 0644);
```

```c
// Menerima input N untuk iterasi input setelahnya
scanf("%d", &n);


char str[100];
char strJenis[3];
scanf("%s %d %s", str, &off, strJenis);
int strSize = strlen(str);


value=strcmp(strJenis,"A");
lseek(ofd, off, SEEK_SET);
write(ofd, str, strSize);


value=strcmp(strJenis,"T");
lseek(ofd, off, SEEK_SET);
write(ofd, str, strSize);


// Melakukan iterasi sesuai input yang telah didapatkan sebelumnya
while ((n-1)>0){
    char str[100];
    char strJenis[3];
    scanf("%s %d %s", str, &off, strJenis);
    int strSize = strlen(str);


    value=strcmp(strJenis,"A");
    if(value==0){


        write(ofd, str, strSize);
```

```c
        // printf("BERHASIL");

    }


    value1=strcmp(strJenis,"T");

    if(value1==0){

        lseek(ofd, off, SEEK_SET);

        write(ofd, str, strSize);

        // printf("masuk");

    }

    // lseek(ofd, off, SEEK_SET);

    // write



    n--;

  }

  close(ofd);



  printf("Please see file %s\n", OFILE);



}
```

Running program & output:

```
skyhaf@Hafizs-MacBook-Pro Week10 % gcc -o runweek10a w10a-iofile1.c
w10a-iofile1.c:13:1: warning: return type of 'main' is not 'int'
      [-Wmain-return-type]
void main(void) {
^
w10a-iofile1.c:13:1: note: change return type to 'int'
void main(void) {
^~~~
int
1 warning generated.
skyhaf@Hafizs-MacBook-Pro Week10 % ./runweek10a
3
INI 0 A
CONTOH 6 A
UAS 7 T
Please see file output_problem_a.txt
skyhaf@Hafizs-MacBook-Pro Week10 %
```

C w10a-iofile1.c   ≡ *output_problem_a.txt U* ✕

Week10 > ≡ output_problem_a.txt

    1   INICONTUAS

```
skyhaf@Hafizs-MacBook-Pro Week10 % ./runweek10a
3
INI 3 T
CONTOH 6 T
UAS 4 T
Please see file output_problem_a.txt
```

C w10a-iofile1.c   ≡ *output_problem_a.txt U* ✕

Week10 > ≡ output_problem_a.txt

    1   ⯑⯑⯑IUASONTOH

Week 10 Problem B

Source Code:

```c
#include <stdio.h>

#include <stdlib.h>
```

```c
#include <unistd.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <string.h>


// Definisi nama file output sesuai ketentuan soal
#define Output1 "output_problem_b1.txt"
#define Output2 "output_problem_b2.txt"



void main(void) {
    int n, off, id, ofd1, ofd2;


    // Membuat file baru untuk proses writing
    ofd1 = open(Output1, O_RDWR | O_CREAT, 0644);
    ofd2 = open(Output2, O_RDWR | O_CREAT, 0644);


    // Menerima input N untuk iterasi input setelahnya
    scanf("%d", &n);


    // Melakukan iterasi sesuai input yang telah didapatkan sebelumnya
    while (n>0){
        char str[100];
        scanf("%s %d %d", str, &off, &id);
        int strSize = strlen(str);


        if(id==1){
```

```
            lseek(ofd1, off, SEEK_SET);

        write(ofd1, str, strSize);

    }

    else if(id==2){

            lseek(ofd2, off, SEEK_SET);

        write(ofd2, str, strSize);

    }

    n--;

}


close(ofd1);

close(ofd2);


printf("Please see file %s\n", Output1);

printf("Please see file %s\n", Output2);



}
```

Running program & output:

```
skyhaf@Hafizs-MacBook-Pro Week10 % gcc -o runweek10b w10b-iofile2.c
w10b-iofile2.c:14:1: warning: return type of 'main' is not 'int'
      [-Wmain-return-type]
void main(void) {
^
w10b-iofile2.c:14:1: note: change return type to 'int'
void main(void) {
^~~~
int
1 warning generated.
skyhaf@Hafizs-MacBook-Pro Week10 % ./runweek10b
3
INI 0 1
CONTOH 4 2
UAS 8 2
Please see file output_problem_b1.txt
Please see file output_problem_b2.txt
skyhaf@Hafizs-MacBook-Pro Week10 %
```

≡ *output_problem_b1.txt* U ✕

Week10 > ≡ output_problem_b1.txt

```
1    INI
```

≡ *output_problem_b2.txt* U ✕

Week10 > ≡ output_problem_b2.txt

```
1    ????CONTUAS
```