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BRANCH: IT

c prog 19-5 lab assignent

LA10.1 WAP to read roll number, name, gender and marks data of n number of students from user and store them in a file. If the file previously exists, add the information of n students.

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main() {
```

```
    char name_3260[50], gender[7];
```

```
    int marks,i,n, roll;
```

```
    printf("Enter number of students: ");
```

```
    scanf("%d",&n);
```

```
    FILE *fptr_3260;
```

```
    fptr_3260=(fopen("student.txt","w"));
```

```
    if(fptr_3260==NULL) {
```

```
        printf("Error!");
```

```
        exit(1);
```

```
    }
```

```
    for (i=0;i<n;++i) {
```

```
        printf("For student%d\nEnter name: ",i+1);
```

```
        scanf("%s",name_3260);
```

```
        printf("Enter marks: ");
```

```
        scanf("%d",&marks);
```

```
        printf("Enter roll number: ");
```

```
        scanf("%d",&roll);
```

```
        printf("Enter the gender: ");
```

```
        scanf("%s",gender);
```

```
        fprintf(fptr_3260,"\nName: %s \nMarks=%d \nGender: %s \nRoll  
number=%d \n",name_3260,marks, gender, roll);
```

```
    }
```

```
    fclose(fptr_3260);
```

```
    return 0;
```

```
}
```

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```
1#include <stdio.h>
2#include <stdlib.h>
3int main() {
4    char name_3260[50], gender[7];
5    int marks,i,n, roll;
6    printf("Enter number of students: ");
7    scanf("%d",&n);
8    FILE *fptr_3260;
9    fptr_3260=(fopen("student.txt","w"));
10   if(fptr_3260==NULL) {
11       printf("Error!");
12       exit(1);
13   }
14   for (i=0;i<n;++i) {
15       printf("For student%d\nEnter name: ",i+1);
16       scanf("%s",name_3260);
17       printf("Enter marks: ");
18       scanf("%d",&marks);
19       printf("Enter roll number: ");
20       scanf("%d",&roll);
21       printf("Enter the gender: ");
22       scanf("%s",gender);
23
24
25       fprintf(fptr_3260,"\nName: %s \nMarks=%d \nGender: %s \nRoll
number=%d \n",name_3260,marks, gender, roll);
26   }
27   fclose(fptr_3260);
28   return 0;
29}
```

```
motolomygolda@motolomygolda: ~/Projects/Lab_exercises/file$ ./a.out
Enter number of students: 2
For student1
Enter name: golda
Enter marks: 98
Enter roll number: 31231
Enter the gender: male
For student2
Enter name: helen
Enter marks: 99
Enter roll number: 233423
Enter the gender: female
```

Activities Text Editor May 20 04:43

student.txt
~/Projects/Lab_exercises/file Save

```
1
2 Name: golda
3 Marks=98
4 Gender: male
5 Roll number=31231
6
7 Name: helen
8 Marks=99
9 Gender: female
0 Roll number=233423
```

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2. WAP to copy the contents of two files named as source1.txt and source2.txt into a third file dest.txt.

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main(){
```

```
    FILE *fptr1, *fptr2, *fptr3;
```

```
    char filename[100], c;
```

```
    printf("Enter the filename to be copied to \n");
```

```
    scanf("%s", filename);
```

```
    fptr1 = fopen("source1.txt" , "r");
```

```
    if (fptr1 == NULL){
```

```
        printf("Cannot open file %s \n", filename);
```

```
        exit(0);
```

```
    }
```

```
    fptr2 = fopen(filename, "w");
```

```
    if (fptr2 == NULL){
```

```
        printf("Cannot open file %s \n", filename);
```

```
        exit(0);
```

```
    }
```

```
    c = fgetc(fptr1);
```

```
    while (c != EOF){
```

```
        fputc(c, fptr2);
```

```
        c = fgetc(fptr1);
```

```
    }
```

```
    fptr3 = fopen("source2.txt" , "r");
```

```
    if (fptr3 == NULL){
```

```
        printf("Cannot open file %s \n", filename);
```

```
        exit(0);
```

```
    }
```

```
    c = fgetc(fptr3);
```

```
    while (c != EOF){
```

```
        fputc(c, fptr2);
```

```
        c = fgetc(fptr3);
```

```
    }
```

```
    printf("\nContents copied to %s", filename);
```

```
    fclose(fptr1);
```

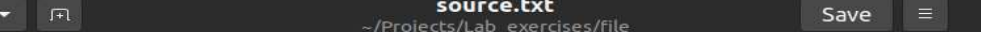
```
    fclose(fptr2);
```

```
    fclose(fptr3);
```

```
    return 0;
```

```
)
```

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The screenshot shows a code editor window with a dark theme. The title bar at the top reads 'source.txt' and the path below it is '~/Projects/Lab_exercises/file'. The editor contains a JSON array of two employee objects. Line numbers 1 through 6 are visible on the left margin. The first object represents Golda, a male software engineer, and the second object represents Assefa, a female consultant.

```
1 {  
2   "name": "Golda",  
3   "gender": "male",  
4   "role": "software engineer",  
5 }  
6 {  
  "name": "Assefa",  
  "gender": "female",  
  "role": "Consultant"  
}
```

LA10.3 WAP to compare contents of two files and display appropriate message.

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```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
int main(){
    FILE *fptr1_3260, *fptr2_3260;
    char filename[100], filenameE[100], c, d;
    printf("Enter the first filename you want to compare \n");
    scanf("%s", filename);
    printf("Enter the second filename you want to compare \n");
    scanf("%s", filenameE);
    fptr1_3260 = fopen(filename, "r");
    fptr2_3260 = fopen(filenameE, "r");
    if (fptr1_3260 == NULL || fptr2_3260 == NULL){
        printf("Cannot open file \n");
        exit(0);
    }
    int line, position;
    c = fgetc(fptr1_3260);
    d = fgetc(fptr2_3260);
    while (c != EOF && d != EOF ){
        position++;
        if(c==d){
            printf("these two files are the same\n");
            break;
        }
        else if(c != d){
            printf("These two files are not the same\n");
            break;
        }
    }

    fclose(fptr1_3260);
    fclose(fptr2_3260);
    return 0;
}
```

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```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 int main(){
5     FILE *fptr1_3260, *fptr2_3260;
6     char filename[100], filenameE[100], c, d;
7     printf("Enter the first filename you want to compare \n");
8     scanf("%s", filename);
9     printf("Enter the second filename you want to compare \n");
10    scanf("%s", filenameE);
11    fptr1_3260 = fopen(filename, "r");
12    fptr2_3260 = fopen(filenameE, "r");
13    if (fptr1_3260 == NULL || fptr2_3260 == NULL){
14        printf("Cannot open file \n");
15        exit(0);
16    }
17    int line, position;
18    c = fgetc(fptr1_3260);
19    d = fgetc(fptr2_3260);
20    while (c != EOF && d != EOF ){
21        position++;
22        if(c==d){
23            printf("these two files are the same\n");
24            break;
25        }
26        else if(c != d){
27            printf("These two files are not the same\n");
28            break;
29        }
30    }
31    }
32
33    fclose(fptr1_3260);
34    fclose(fptr2_3260);
35    return 0;
36 }
```

Open t2.txt ~/Projects/Lab_exercises/file Save

```
1 yes man
```

Open t3.txt ~/Projects/Lab_exercises/file Save

```
1 YES man
```

```
motolomygolda@motolomygolda:~/Projects/Lab_exercises/file$ ./a.out
Enter the first filename you want to compare
t3.txt
Enter the second filename you want to compare
t2.txt
These two files are not the same
motolomygolda@motolomygolda:~/Projects/Lab_exercises/file$
```

LA10.4 WAP to replace first letter of every word of the contents of a file with capital letter.

#include <stdio.h>

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```
#include <stdlib.h>
int init_cap_file(FILE *fp1_3260);
void main(int argc, char *argv[])
{
    FILE *fp1_3260;
    int return_val;
    char filename[100];
    printf("Enter the filename you want to update: \n");
    scanf("%s", filename);
    fp1_3260=fopen(filename, "r+");
    if (fp1_3260 == NULL)
    {
        printf("file cant be opened");
        exit(0);
    }
    return_val = init_cap_file(fp1_3260);
    if (return_val == 1)
    {
        printf("\nsuccess\n");
    }
    else
    {
        printf("\n failure\n");
    }
}

int init_cap_file(FILE *fp1_3260)
{
    char ch_3260;

    ch_3260 = fgetc(fp1_3260);
    if (ch_3260 >= 97 && ch_3260 <= 122)
    {
        fseek(fp1_3260, -1L, 1);
        fputc(ch_3260 - 32, fp1_3260);
    }
    while (ch_3260 != EOF)
    {
        if (ch_3260 == ' '|| ch_3260 == '\n')
        {
```

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```
        ch_3260 = fgetc(fp1_3260);
        if (ch_3260 >= 97 && ch_3260 <= 122)
        {
            fseek(fp1_3260, -1L, 1);
            fputc(ch_3260 - 32, fp1_3260);
        }
    }
    else
        ch_3260 = fgetc(fp1_3260);
}
return 1;
}
```

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 int init_cap_file(FILE *fp1_3260);
4 void main(int argc, char *argv[]){
5     FILE *fp1_3260;
6     int return_val;
7     char filename[100];
8     printf("Enter the filename you want to update: \n");
9     scanf("%s", filename);
10    fp1_3260=fopen(filename, "r+");
11    if (fp1_3260 == NULL){
12        printf("file cant be opened");
13        exit(0);}
14    return_val = init_cap_file(fp1_3260);
15    if (return_val == 1){
16        printf("\nsuccess\n");}
17    else{
18        printf("\n failure\n");}
19 }
20 int init_cap_file(FILE *fp1_3260){
21     char ch_3260;
22     ch_3260 = fgetc(fp1_3260);
23     if (ch_3260 >= 97 && ch_3260 <= 122){
24         fseek(fp1_3260, -1L, 1);
25         fputc(ch_3260 - 32, fp1_3260);}
26     while (ch_3260 != EOF){
27         if (ch_3260 == ' ' || ch_3260 == '\n'){
28             ch_3260 = fgetc(fp1_3260);
29             if (ch_3260 >= 97 && ch_3260 <= 122){
30                 fseek(fp1_3260, -1L, 1);
31                 fputc(ch_3260 - 32, fp1_3260);
32             }
33         }
34         else
35             ch_3260 = fgetc(fp1_3260);
36     }
37     return 1;
38 }
39 }
```


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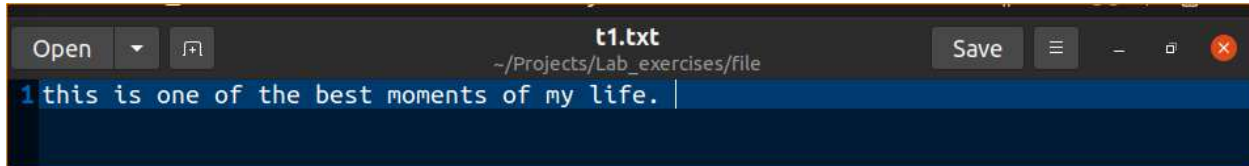
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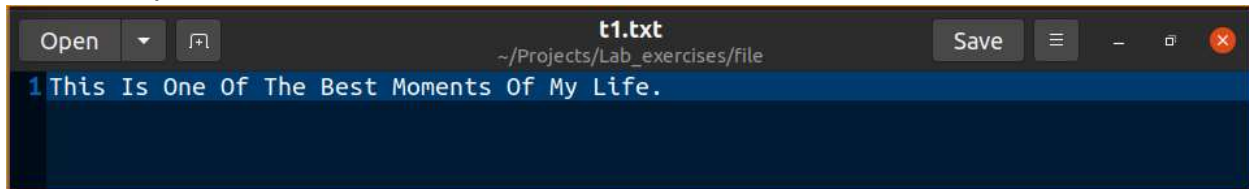
```
motolomygolda@motolomygolda:~/Projects/Lab_exercises/file$ ./a.out
Enter the filename you want to update:
t1.txt

success
```

Before the update;

A screenshot of a text editor window titled 't1.txt' with a path of '~/Projects/Lab_exercises/file'. The window contains a single line of text: '1 this is one of the best moments of my life.' The text is highlighted in blue.

After the update;

A screenshot of a text editor window titled 't1.txt' with a path of '~/Projects/Lab_exercises/file'. The window contains a single line of text: '1 This Is One Of The Best Moments Of My Life.' The text is highlighted in blue.

LA10.5 WAP to print the content of a file in reverse order.

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    FILE *fp_3260;
    int ft,i=0;
    char filename_3260[30];
    printf("Enter the filename you want to reverse: \n");
    scanf("%s", filename_3260);
    fp_3260=fopen(filename_3260,"r");
    if(fp_3260==NULL)
    {
        printf("ERROR\n");
        exit(0);
    }
    fseek(fp_3260,0,SEEK_END);
    ft=ftell(fp_3260);
    while(i<ft)
    {
        i++;
        fseek(fp_3260,-i,SEEK_END);
        printf( "%c",fgetc(fp_3260));
    }
    printf("\n");
    fclose(fp_3260);
}
```

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return 0;

}

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 int main()
4 {
5     FILE *fp;
6     int ft,i=0;
7     char filename[30];
8     printf("Enter the filename you want to reverse: \n");
9     scanf("%s", filename);
10    fp=fopen(filename,"r");
11    if(fp==NULL)
12    {
13        printf("ERROR\n");
14        exit(0);
15    }
16    fseek(fp,0,SEEK_END);
17    ft=ftell(fp);
18    while(i<ft)
19    {
20        i++;
21        fseek(fp,-i,SEEK_END);
22        printf(" %c",fgetc(fp));
23    }
24    printf("\n");
25    fclose(fp);
26    return 0;
27 }
```

```
motolomygolda@motolomygolda:~/Projects/Lab_exercises/file$ cat t1.txt
```

```
This Is One Of The Best Moments Of My Life.
```

```
motolomygolda@motolomygolda:~/Projects/Lab_exercises/file$ gcc rev.c
```

```
motolomygolda@motolomygolda:~/Projects/Lab_exercises/file$ ./a.out
```

```
Enter the filename you want to reverse:
```

```
t1.txt
```

```
.efiL yM fO stnemoM tseB ehT fO enO sI sihT
```

```
motolomygolda@motolomygolda:~/Projects/Lab_exercises/file$
```