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#include<stdio.h>

#include<stdlib.h>

#include<conio.h>

#include<string.h>

#include <time.h>

struct subscriber {

    long phone_no;
    char name[50];
    char city[50];
    char Email[50];
    char plan[50];
    int age;
    int amount;

}sub;

void addrecords();
void listrecords();
void searchrecords();
void deleterecords();
void modifyrecords();
void payments();

int main() {

    char option;

    printf("Enter your choice\n");
    printf("A: For adding records\n");
    printf("L: For list of records\n");
    printf("S: for searching records\n");
    printf("D: For deleting records\n");
    printf("M: For modifying records\n");
    printf("P:For payment\n");

    printf("E: Exit\n");
    scanf("%s", & option);
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switch (option) {

case 'A':
    addrecords();

    break;
case 'L':
    listrecords();
    break;

case 'S':
    searchrecords();
    break;

case 'D':
    deleterecords();
    break;
case 'M':
    modifyrecords();
    break;
case 'P':
    payments();
    break;

case 'E':
    exit(1);
    break;

}

}

void addrecords() {
    FILE * f;

    f = fopen("subscriber.txt", "a");
    if (f != NULL) {
        printf("File created successfully!\n");
    } else {
        printf("Failed to create the file.\n");
    }
    printf("Enter Your name : ");
    scanf("%s", & sub.name);

    printf("Enter your age : ");

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scanf("%d", & sub.age);

printf("Enter your Email : ");
scanf("%s", & sub.Email);

printf("Enter the city Name : ");
scanf("%s", & sub.city);

printf("Enter the phone no : ");
scanf("%ld", & sub.phone_no);
fprintf(f, "%s\t %d\t %s\t %s\t %ld" , sub.name, sub.age, sub.Email, sub.city, sub.phone_no);
printf("\n\n Record Is Successfully Added");
fclose(f);

}
void listrecords(){
FILE *f;
f=fopen("subscriber.txt", "r");
char ch;
if ((f = fopen("subscriber.txt", "r")) == NULL){
    printf("Error! opening file");

    exit(1);
}

do
{
    /* Read single character from file */
    ch = fgetc(f);

    /* Print character read on console */
    putchar(ch);

} while(ch != EOF);
printf("\nEnd of file.\n");

fclose(f);

}

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void searchrecords(){
    char sname[50];
    char temp[50];
    int count=0;
    FILE * f;

    f = fopen("subscriber.txt", "r");

    printf("Enter the name to search: ");
    scanf("%s", sname);
    if (f == NULL) {
        printf("Error! opening file");

        exit(1);
    }
    while(fgets(temp, 100, f) != NULL) {
        if((strstr(temp, sname)) != NULL) {
            count=1;

            printf("Record Found\n");
            printf(temp);
            break;
        }
    }

    if(count==0){
        printf("Record not found");
        fclose(f);
    }
}

void deleterecords()
{
    FILE *f,*t;
    int found=1;;

    char sname[50],temp[100];
    if((t=fopen("copy.txt","w"))==NULL)
        exit(0);
    if((f=fopen("subscriber.txt","r"))==NULL)
        exit(0);
    system("cls");

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printf("Enter the name to be deleted");
fflush(stdin);
scanf("%s",sname);
while(fgets(temp, 100, f) != NULL)
{
    if((strstr(temp, sname)) == NULL) {
        found=1;

        printf("Record Found\n");
        fputs(temp,t);}
}
system("cls");
if(!found)
{
    system("cls");
    printf("Name" "%s" "not found",sname);
}
fclose(f);
fclose(t);
remove("subscriber.txt");
rename("copy.txt","subscriber.txt");
getch();

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}
void modifyrecords()
{
    FILE *f,*t;
    int found=1;
    char sname[50],temp[100];
    if((t=fopen("copy.txt","w"))==NULL)
        exit(0);
    if((f=fopen("subscriber.txt","r"))==NULL)
        exit(0);
    system("cls");
    printf("Enter the name to be updated : ");
    fflush(stdin);
    scanf("%s",sname);
    while(fgets(temp, 100, f) != NULL)
    {
        if((strstr(temp, sname)) == NULL) {
            found=1;
            printf("Record Found\n");

            fputs(temp,t);

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    }
    else{

        printf("Enter Your name : ");
        scanf("%s", & sub.name);
        printf("Enter your age : ");
        scanf("%d", & sub.age);
        printf("Enter your Email : ");
        scanf("%s", & sub.Email);
        printf("Enter the city Name : ");
        scanf("%s", & sub.city);
        printf("Enter the phone no : ");
        scanf("%ld", & sub.phone_no);
        fprintf(t, " %s\t %d\t %s\t %s\t %ld\t %s\t %d\n", sub.name, sub.age, sub.Email, sub.city,
        sub.phone_no);
        printf("\n\n Record Is Successfully Added");
    }

}
system("cls");
if(!found)
{ system("cls");
printf("Name" "%s" "not found",sname);
}
fclose(f);
fclose(t);
remove("subscriber.txt");
rename("copy.txt","subscriber.txt");
printf("\nRecord Edited");
}
void payments(){
char name;
int noOfCall, tempNoOfCall, charge;
printf("Enter Your name\n");
scanf("%s",&name);
    printf("Enter total unit of calls made this month: ");
    scanf("%d", &noOfCall);
    printf("\n");
    if(noOfCall<=200)
    {
        printf("You have not crossed the limit of 200 calls");
        printf("\nNo charge.");
    }
    else

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{
    if(noOfCall<=500)
    {
        tempNoOfCall = noOfCall - 200;
        charge = tempNoOfCall * 1;
        printf("The charge you have to paid = Rs.%d", charge);
    }
    else
    {
        tempNoOfCall = noOfCall - 500;
        charge = tempNoOfCall * 2;
        charge = charge + 300;
        printf("The charge you have to pay = Rs.%d\n", charge);
        printf("Thank you\n");
    }
}
getch();
}
```