

PROJECT-3

BANKING MANAGEMENT SYSTEM

CODE:-

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#include <stdio.h>
#include <string.h>
#include <stdlib.h>
void create();
void update();
void check();
void withdraw();
void deposit();
void transfer();
void close();
int main(){
    int choice;
    printf("WELCOME TO BANKING MANAGEMENT SYSTEM");
    printf("1.CREATE NEW ACCOUNT\n2.UPDATE EXISTING ACCOUNT\n3.CHECK BANK
BALANACE\n4.WITHDRAW MONEY\n5.DEPOSIT MONEY\n6.TRANSFER MONEY");
    scanf("%d",&choice);
    switch(choice){
        case 1:create();
        break;
        case 2:update();
        break;
        case 3:check();
        break;
        case 4:withdraw();
        break;
        case 5:deposit();
        break;
        case 6:transfer();
        break;
        default:close();
    }
    return 0;
}void create(){

    printf("CREATE ACCOUNT\n");
    FILE*ptr;
    ptr=fopen("accounts.txt","a+");
    char acc_no[12];
    char name[30];
    double strbalance;
    //USER INPUT DATA
    input_account:
    printf("ACCOUNT NUMBER:-");
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scanf("%s",acc_no);
printf("NAME:-");
scanf("%s",name);
printf("STARTING BALANCE:-");
scanf("%lf",&balance);
//FILE DATA
while (fscanf(ptr,"%s %s %lf",stracc_no,strname,&strbalance)){
    //CHECK IF ACCOUNT NUMBER ALREADY EXISTS
    if (strcmp(acc_no,stracc_no)==0){
        printf("ACCOUNT ALREADY EXISTS,TRY AGAIN\n");
        goto input_account;
    }
}
//account does not exist ,lets create account
fprintf(ptr,"%s %s %lf\n",acc_no,name,balance);
fclose(ptr);
printf("ACCOUNT CREATED SUCCESSFULLY\n");
}
//TO UPDATE AN ACCOUNT
void update(){
    printf("UPDATE ACCOUNT\n");
    FILE*new_ptr;
    FILE*old_ptr;
    new_ptr=fopen("accounts.new.txt","w");
    old_ptr=fopen("accounts.txt","r");

    char stracc_no[12];
    char strname[30];
    double strbalance;

    char acc_no[12];
    char new_name[30];
    input_account:
    printf("ENTER THE ACCOUNT NUMBER YOU WISH TO UPDATE");
    scanf("%s",acc_no);
    int found;
    //if found=0,then account exists

    //FILE DATA
    while (fscanf(old_ptr,"%s %s %lf",stracc_no,strname,&strbalance)){
        if (strcmp(acc_no,stracc_no)==0){
            found=0;
            break;
        }
        else{
            found=1;
        }
    }
}

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    if(found==1){
        //account does not exist
        printf("ACCOUNT DOES NOT EXIST,TRY GAIN\n");
        goto input_account;
    }
    //CODE TO UPDATE ACCOUNT
    printf("ENTER NEW NAME=");
    scanf("%s",new_name);
    fseek(old_ptr,0,SEEK_SET);
    while (fscanf(old_ptr,"%s %s %lf\n",stracc_no,strname,&strbalance)){
        if(strcmp(acc_no,stracc_no)==0){
            strcpy(strname,name);
        }
        fprintf(new_ptr,"%s %s %lf",stracc_no,strname,strbalance);
    }
    printf("ACCOUNT UPDATED SUCCESSFULLY\n");
    fclose(new_ptr);
    fclose(old_ptr);
    remove("accounts.txt");
    rename("accounts_new.txt","accounts.txt");
}

void withdraw(){
    printf("WITHDRAW MONEY\n");
    FILE*new_ptr;
    FILE*old_ptr;
    new_ptr=fopen("accounts_new.txt","w");
    old_ptr=fopen("accounts.txt","r");

    char stracc_no[12];
    char strname[30];
    double strbalance;

    char acc_no[12];
    double amt;
    input_account:
    printf("ENTER THE ACCOUNT NUMBER=");
    scanf("%s",acc_no);
    int found;
    //if found=0,then account exists

    //FILE DATA
    while (fscanf(old_ptr,"%s %s %lf",stracc_no,strname,&strbalance)){
        if (strcmp(acc_no,stracc_no)==0){
            found=0;
            break;
        }
        else{
            found=1;

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    }
}
if(found==1){
    //account does not exist
    printf("ACCOUNT DOES NOT EXIST,TRY GAIN\n");
    goto input_account;
}
//CODE TO WITHDRAW ACCOUNT
printf("ENTER THE AMOUNT=");
scanf("%lf",&amt);
fseek(old_ptr,0,SEEK_SET);
while (fscanf(old_ptr,"%s %s %lf\n",stracc_no,strname,&strbalance)){
    if(strcmp(acc_no,stracc_no)==0){
        strbalance=strbalance-amt;
    }
    fprintf(new_ptr,"%s %s %lf",stracc_no,strname,strbalance);
}
printf("AMOUNT WITHDRAWN SUCCESSFULLY\n");
fclose(new_ptr);
fclose(old_ptr);
remove("accounts.txt");
rename("accounts_new.txt","accounts.txt");
}
void deposit(){
    printf("DEPOSIT MONEY\n");
    FILE*new_ptr;
    FILE*old_ptr;
    new_ptr=fopen("accounts_new.txt","w");
    old_ptr=fopen("accounts.txt","r");

    char stracc_no[12];
    char strname[30];
    double strbalance;

    char acc_no[12];
    double amt;
    input_account:
    printf("ENTER THE ACCOUNT NUMBER=");
    scanf("%s",acc_no);
    int found;
    //if found=0,then account exists

    //FILE DATA
    while (fscanf(old_ptr,"%s %s %lf",stracc_no,strname,&strbalance)){
        if (strcmp(acc_no,stracc_no)==0){
            found=0;
            break;

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    }
    else{
        found=1;
    }
}
if(found==1){
    //account does not exist
    printf("ACCOUNT DOES NOT EXIST,TRY GAIN\n");
    goto input_account;
}
//CODE TO DEPOSIT IN ACCOUNT
printf("ENTER THE AMOUNT=");
scanf("%lf",&amt);
fseek(old_ptr,0,SEEK_SET);
while (fscanf(old_ptr,"%s %s %lf\n",stracc_no,strname,&strbalance)){
    if(strcmp(acc_no,stracc_no)==0){
        strbalance=strbalance+amt;
    }
    fprintf(new_ptr,"%s %s %lf",stracc_no,strname,strbalance);
}
printf("AMOUNT DEPOSITED SUCCESSFULLY\n");
fclose(new_ptr);
fclose(old_ptr);
remove("accounts.txt");
rename("accounts_new.txt","accounts.txt");
}
void transfer(){
    printf("TRANSFER MONEY\n");
    FILE*new_ptr;
    FILE*old_ptr;
    new_ptr=fopen("accounts_new.txt","w");
    old_ptr=fopen("accounts.txt","r");

    char stracc_no[12];
    char strname[30];
    double strbalance;
    double rec_acc_no;

    char acc_no[12];
    double amt;
    input_account:
    printf("ENTER THE ACCOUNT NUMBER=");
    scanf("%s",acc_no);
    printf("ENTER RECEIVERS ACCOUNT NUMBER");
    scanf("%s",rec_acc_no);
    int found;
    //if found=0,then account exists

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//FILE DATA
while (fscanf(old_ptr,"%s %s %lf",stracc_no,strname,&strbalance)){
    if (strcmp(acc_no,stracc_no)==0){
        found=0;
        break;
    }else if(strcmp(rec_acc_no,stracc_no)==0){
        found=0;
        break;
    }
    else{
        found=1;
    }
}
if(found==1){
    //account does not exist
    printf("ACCOUNT DOES NOT EXIST,TRY AGAIN\n");
    goto input_account;
}
//CODE TO TRANSFER MONEY TO ACCOUNT
printf("ENTER THE AMOUNT=");
scanf("%lf",&amt);
fseek(old_ptr,0,SEEK_SET);
while (fscanf(old_ptr,"%s %s %lf\n",stracc_no,strname,&strbalance)){
    if(strcmp(rec_acc_no,stracc_no)==0){
        strbalance=strbalance+amt;
    }
    else{
        (strcmp(acc_no,stracc_no)==0){
            strbalance=strbalance-amt;
        }
    }
    fprintf(new_ptr,"%s %s %lf",stracc_no,strname,strbalance);
}
printf("AMOUNT transfered SUCCESSFULLY\n");
fclose(new_ptr);
fclose(old_ptr);
remove("accounts.txt");
rename("accounts_new.txt","accounts.txt");
}
//TO CLOSE THE PROGRAM
void close(){
    exit(0);
}

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