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#include<stdio.h>
#include<stdlib.h>
#include<windows.h>
int i,j;
int main_exit;
void menu();
struct date{
    int month,day,year;

};
struct {

    char name[60];
    int acc_no,age;
    char address[60];
    char citizenship[15];
    double phone;
    char acc_type[10];
    float amt;
    struct date dob;
    struct date deposit;
    struct date withdraw;

    }add,upd,check,rem,transaction;

float interest(float t,float amount,int rate)
{
    float SI;
    SI=(rate*t*amount)/100.0;
    return (SI);

}
void fordelay(int j)
{
    int i,k;
    for(i=0;i<j;i++)
        k=i;
}

void new_acc()
{
    int choice;
    FILE *ptr;

    ptr=fopen("record.dat","a+");
    account_no:
    system("cls");
    printf("\t\t\t\t\xB2\xB2\xB2\ ADD RECORD \xB2\xB2\xB2\xB2");
    printf("\n\n\nEnter today's date(mm/dd/yyyy):");
    scanf("%d/%d/%d",&add.deposit.month,&add.deposit.day,&add.deposit.year);

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printf("\nEnter the account number:");
scanf("%d",&check.acc_no);
while(fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age
,add.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&a
dd.deposit.day,&add.deposit.year)!=EOF)
{
    if (check.acc_no==add.acc_no)
        {printf("Account no. already in use!");
        fordelay(1000000000);
        goto account_no;

        }
}
add.acc_no=check.acc_no;
printf("\nEnter the name:");
scanf("%s",add.name);
printf("\nEnter the date of birth(mm/dd/yyyy):");
scanf("%d/%d/%d",&add.dob.month,&add.dob.day,&add.dob.year);
printf("\nEnter the age:");
scanf("%d",&add.age);
printf("\nEnter the address:");
scanf("%s",add.address);
printf("\nEnter the citizenship number:");
scanf("%s",add.citizenship);
printf("\nEnter the phone number: ");
scanf("%lf",&add.phone);
printf("\nEnter the amount to deposit:$");
scanf("%f",&add.amt);
printf("\nType of account:\n\t#Saving\n\t#Current\n\t#Fixed1(for 1
year)\n\t#Fixed2(for 2 years)\n\t#Fixed3(for 3 years)\n\n\tEnter your choice:");
scanf("%s",add.acc_type);

    fprintf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.
address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.
day,add.deposit.year);

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fclose(ptr);
printf("\nAccount created successfully!");
add_invalid:
printf("\n\n\n\t\tEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);
system("cls");
if (main_exit==1)
    menu();
else if(main_exit==0)
    close();
else

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        {
            printf("\nInvalid!\a");
            goto add_invalid;
        }
    }
}
void view_list()
{
    FILE *view;
    view=fopen("record.dat","r");
    int test=0;
    system("cls");
    printf("\nACC. NO.\tNAME\t\t\tADDRESS\t\t\tPHONE\n");

    while(fscanf(view,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add
.deposit.day,&add.deposit.year)!=EOF)
    {
        printf("\n%6d\t
%10s\t\t\t%10s\t\t%.0lf",add.acc_no,add.name,add.address,add.phone);
        test++;
    }

    fclose(view);
    if (test==0)
    {
        system("cls");
        printf("\nNO RECORDS!!\n");}

    view_list_invalid:
    printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
    scanf("%d",&main_exit);
    system("cls");
    if (main_exit==1)
        menu();
    else if(main_exit==0)
        close();
    else
    {
        printf("\nInvalid!\a");
        goto view_list_invalid;
    }
}
void edit(void)
{
    int choice,test=0;
    FILE *old,*newrec;
    old=fopen("record.dat","r");
    newrec=fopen("new.dat","w");

    printf("\nEnter the account no. of the customer whose info you want to

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change:");
    scanf("%d",&upd.acc_no);
    while(fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add
.deposit.day,&add.deposit.year)!=EOF)
    {
        if (add.acc_no==upd.acc_no)
        {
            test=1;
            printf("\nWhich information do you want to
change?\n1.Address\n2.Phone\n\nEnter your choice(1 for address and 2 for phone):");
            scanf("%d",&choice);
            system("cls");
            if(choice==1)
            {
                printf("Enter the new address:");
                scanf("%s",upd.address);
                fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,upd.
address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit
t.day,add.deposit.year);
                system("cls");
                printf("Changes saved!");
            }
            else if(choice==2)
            {
                printf("Enter the new phone number:");
                scanf("%lf",&upd.phone);
                fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.
address,add.citizenship,upd.phone,add.acc_type,add.amt,add.deposit.month,add.deposit
t.day,add.deposit.year);
                system("cls");
                printf("Changes saved!");
            }
        }
        else
            fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.
address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit
t.day,add.deposit.year);
    }
    fclose(old);
    fclose(newrec);
    remove("record.dat");
    rename("new.dat","record.dat");

if(test!=1)
    {
        system("cls");
        printf("\nRecord not found!!\a\a\a");
    }

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        edit_invalid:
            printf("\nEnter 0 to try again,1 to return to main menu and 2 to
exit:");

            scanf("%d",&main_exit);
            system("cls");
            if (main_exit==1)

                menu();
            else if (main_exit==2)
                close();
            else if(main_exit==0)
                edit();
            else
                {printf("\nInvalid!\a");
                goto edit_invalid;}
        }
    else
        {printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
        scanf("%d",&main_exit);
        system("cls");
        if (main_exit==1)
            menu();
        else
            close();
        }
}

void transact(void)
{
    int choice,test=0;
    FILE *old,*newrec;
    old=fopen("record.dat","r");
    newrec=fopen("new.dat","w");

    printf("Enter the account no. of the customer:");
    scanf("%d",&transaction.acc_no);
    while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add
.deposit.day,&add.deposit.year)!=EOF)
    {

        if(add.acc_no==transaction.acc_no)
        {
            test=1;

if(strncmpi(add.acc_type,"fixed1")==0||strncmpi(add.acc_type,"fixed2")==0||strncmpi(ad
d.acc_type,"fixed3")==0)
            {
                printf("\a\a\a\n\nYOU CANNOT DEPOSIT OR WITHDRAW CASH IN FIXED
ACCOUNTS!!!!!!");
                fordelay(1000000000);

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        system("cls");
        menu();

    }
    printf("\n\nDo you want to\n1.Deposit\n2.Withdraw?\n\nEnter your
choice(1 for deposit and 2 for withdraw):");
    scanf("%d",&choice);
    if (choice==1)
    {
        printf("Enter the amount you want to deposit:$ ");
        scanf("%f",&transaction.amt);
        add.amt+=transaction.amt;
        fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.
address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.
t.day,add.deposit.year);
        printf("\n\nDeposited successfully!");
    }
    else
    {
        printf("Enter the amount you want to withdraw:$ ");
        scanf("%f",&transaction.amt);
        add.amt-=transaction.amt;
        fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.
address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.
t.day,add.deposit.year);
        printf("\n\nWithdrawn successfully!");
    }

}
else
{
    fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.
address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit.
t.day,add.deposit.year);
}
}
fclose(old);
fclose(newrec);
remove("record.dat");
rename("new.dat","record.dat");
if(test!=1)
{
    printf("\n\nRecord not found!!");
    transact_invalid:
    printf("\n\n\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
    scanf("%d",&main_exit);
    system("cls");
}

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        if (main_exit==0)
            transact();
        else if (main_exit==1)
            menu();
        else if (main_exit==2)
            close();
        else
        {
            printf("\nInvalid!");
            goto transact_invalid;
        }
    }
    else
    {
        printf("\nEnter 1 to go to the main menu and 0 to exit:");
        scanf("%d",&main_exit);
        system("cls");
        if (main_exit==1)
            menu();
        else
            close();
    }
}

void erase(void)
{
    FILE *old,*newrec;
    int test=0;
    old=fopen("record.dat","r");
    newrec=fopen("new.dat","w");
    printf("Enter the account no. of the customer you want to delete:");
    scanf("%d",&rem.acc_no);
    while (fscanf(old,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add
.deposit.day,&add.deposit.year)!=EOF)
    {
        if(add.acc_no!=rem.acc_no)
            fprintf(newrec,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,add.age,add.
address,add.citizenship,add.phone,add.acc_type,add.amt,add.deposit.month,add.deposit
t.day,add.deposit.year);

        else
        {test++;
        printf("\nRecord deleted successfully!\n");
        }
    }
    fclose(old);
}

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fclose(newrec);
remove("record.dat");
rename("new.dat","record.dat");
if(test==0)
{
    printf("\nRecord not found!!\a\a\a");
    erase_invalid:
    printf("\nEnter 0 to try again,1 to return to main menu and 2 to
exit:");
    scanf("%d",&main_exit);

    if (main_exit==1)
        menu();
    else if (main_exit==2)
        close();
    else if(main_exit==0)
        erase();
    else
        {printf("\nInvalid!\a");
        goto erase_invalid;}
}
else
{printf("\nEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);
system("cls");
if (main_exit==1)
    menu();
else
    close();
}

}

void see(void)
{
    FILE *ptr;
    int test=0,rate;
    int choice;
    float time;
    float intrst;
    ptr=fopen("record.dat","r");
    printf("Do you want to check by\n1.Account no\n2.Name\nEnter your choice:");
    scanf("%d",&choice);
    if (choice==1)
    { printf("Enter the account number:");
        scanf("%d",&check.acc_no);

        while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add

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.deposit.day,&add.deposit.year)!=EOF)
{
    if(add.acc_no==check.acc_no)
    {
        system("cls");
        test=1;

        printf("\nAccount NO.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d
\nAddress:%s \nCitizenship No:%s \nPhone number:%.01f \nType Of Account:%s \nAmount
deposited:$ %.2f \nDate Of
Deposit:%d/%d/%d\n\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,ad
d.age,add.address,add.citizenship,add.phone,

add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
        if(strcmpi(add.acc_type,"fixed1")==0)
        {
            time=1.0;
            rate=9;
            intrst=interest(time,add.amt,rate);
            printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+1);
        }
        else if(strcmpi(add.acc_type,"fixed2")==0)
        {
            time=2.0;
            rate=11;
            intrst=interest(time,add.amt,rate);
            printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+2);

        }
        else if(strcmpi(add.acc_type,"fixed3")==0)
        {
            time=3.0;
            rate=13;
            intrst=interest(time,add.amt,rate);
            printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+3);

        }
        else if(strcmpi(add.acc_type,"saving")==0)
        {
            time=(1.0/12.0);
            rate=8;
            intrst=interest(time,add.amt,rate);
            printf("\n\nYou will get $%.2f as interest on %d of every
month",intrst,add.deposit.day);

        }
        else if(strcmpi(add.acc_type,"current")==0)
        {

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        printf("\n\nYou will get no interest\n");
    }

}

}

else if (choice==2)
{
    printf("Enter the name:");
    scanf("%s",&check.name);
    while (fscanf(ptr,"%d %s %d/%d/%d %d %s %s %lf %s %f
%d/%d/%d",&add.acc_no,add.name,&add.dob.month,&add.dob.day,&add.dob.year,&add.age,a
dd.address,add.citizenship,&add.phone,add.acc_type,&add.amt,&add.deposit.month,&add
.deposit.day,&add.deposit.year)!=EOF)
    {
        if(strcmpi(add.name,check.name)==0)
        {
            system("cls");
            test=1;
            printf("\nAccount No.:%d\nName:%s \nDOB:%d/%d/%d \nAge:%d
\nAddress:%s \nCitizenship No:%s \nPhone number:%.0lf \nType Of Account:%s \nAmount
deposited:$%.2f \nDate Of
Deposit:%d/%d/%d\n\n",add.acc_no,add.name,add.dob.month,add.dob.day,add.dob.year,ad
d.age,add.address,add.citizenship,add.phone,

add.acc_type,add.amt,add.deposit.month,add.deposit.day,add.deposit.year);
            if(strcmpi(add.acc_type,"fixed1")==0)
            {
                time=1.0;
                rate=9;
                intrst=interest(time,add.amt,rate);
                printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+1);
            }
            else if(strcmpi(add.acc_type,"fixed2")==0)
            {
                time=2.0;
                rate=11;
                intrst=interest(time,add.amt,rate);
                printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+2);
            }
            else if(strcmpi(add.acc_type,"fixed3")==0)
            {
                time=3.0;
                rate=13;
                intrst=interest(time,add.amt,rate);
                printf("\n\nYou will get $%.2f as interest on
%d/%d/%d",intrst,add.deposit.month,add.deposit.day,add.deposit.year+3);
            }
        }
    }
}

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    }
    else if(strcmpi(add.acc_type,"saving")==0)
    {
        time=(1.0/12.0);
        rate=8;
        intrst=interest(time,add.amt,rate);
        printf("\n\nYou will get $%.2f as interest on %d of every
month",intrst,add.deposit.day);

    }
    else if(strcmpi(add.acc_type,"current")==0)
    {

        printf("\n\nYou will get no interest\n\n");

    }

}
}
}

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fclose(ptr);
if(test!=1)
{
    system("cls");
    printf("\nRecord not found!!\n\n");
    see_invalid:
    printf("\nEnter 0 to try again,1 to return to main menu and 2 to
exit:");
    scanf("%d",&main_exit);
    system("cls");
    if (main_exit==1)
        menu();
    else if (main_exit==2)
        close();
    else if(main_exit==0)
        see();
    else
    {
        system("cls");
        printf("\nInvalid!\n");
        goto see_invalid;}
}
else
{printf("\nEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);}
if (main_exit==1)
{
    system("cls");

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        menu();
    }

    else
    {

        system("cls");
        close();
    }

}

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```

void close(void)
{
    printf("\n\n\n\nThis C Mini Project is developed by Code With C team!");
}

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void menu(void)
{
    int choice;
    system("cls");
    system("color 9");
    printf("\n\n\t\t\tCUSTOMER ACCOUNT BANKING MANAGEMENT SYSTEM");
    printf("\n\n\n\t\t\t\xB2\xB2\xB2\xB2\xB2\xB2\xB2 WELCOME TO THE MAIN MENU
\xB2\xB2\xB2\xB2\xB2\xB2\xB2");
    printf("\n\n\t\t1.Create new account\n\t\t2.Update information of existing
account\n\t\t3.For transactions\n\t\t4.Check the details of existing
account\n\t\t5.Removing existing account\n\t\t6.View customer's
list\n\t\t7.Exit\n\n\n\n\n\t\tEnter your choice:");
    scanf("%d",&choice);

    system("cls");
    switch(choice)
    {
        case 1:new_acc();
        break;
        case 2:edit();
        break;
        case 3:transact();
        break;
        case 4:see();
        break;
        case 5:erase();
        break;
        case 6:view_list();
        break;
        case 7:close();
        break;
    }
}

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}
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```
}
int main()
{
    char pass[10],password[10]="codewithc";
    int i=0;
    printf("\n\n\t\tEnter the password to login:");
    scanf("%s",pass);
    /*do
    {
        //if (pass[i]!=13&&pass[i]!=8)
        {
            printf("*");
            pass[i]=getch();
            i++;
        }
    }while (pass[i]!=13);
    pass[10]='\0';*/
    if (strcmp(pass,password)==0)
    {printf("\n\nPassword Match!\nLOADING");
        for(i=0;i<=6;i++)
        {
            fordelay(100000000);
            printf(".");
        }
        system("cls");
        menu();
    }
    else
    { printf("\n\nWrong password!!\a\a\a");
        login_try:
        printf("\nEnter 1 to try again and 0 to exit:");
        scanf("%d",&main_exit);
        if (main_exit==1)
        {
            system("cls");
            main();
        }

        else if (main_exit==0)
        {
            system("cls");
            close();}
        else
        {printf("\nInvalid!");
            fordelay(1000000000);
        }
    }
}
```

```
system("cls");  
goto login_try;}
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}  
return 0;
```

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}
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