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#include<stdio.h>
#include<conio.h>
#include<stdlib.h>

void input();
void writefile();
void search();
void output();

struct date{
          int month;
          int day;
          int year;
          };

 struct account {
       int number;
       char name[100];
       int acct_no;
       float mobile_no;
       char street[100];
       char city[100];
       char acct_type;
       float oldbalance;
       float newbalance;
       float payment;
       struct date lastpayment;
 }customer;
 int tl,sl,ts;
void main()
       {
         int i,n;
         char ch;
         clrscr();

         _setcursortype(_NOCURSOR);
         printf("   CUSTOMER BILLING SYSTEM:\n\n");
         printf("==============================\n");
         printf("\n1:    to add account on list\n");
         printf("2:    to search customer account\n");
         printf("3:    exit\n");
         printf("\n================================\n");
         do{
              printf("\nselect what do you want to do?");
              ch=getche();
         }while(ch<='0' || ch>'3');
         switch(ch){
               case '1':
                       clrscr();
                       printf("\nhow many customer accounts?");
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                        scanf("%d",&n);
                        for(i=0;i<n;i++){
                                input();
                                if(customer.payment>0)

customer.acct_type=(customer.payment<0.1*customer.oldbalance)? 'O': 'D';
                                else

customer.acct_type=(customer.oldbalance>0)?'D' : 'C';
                                customer.newbalance=customer.oldbalance -
customer.payment;
                                writefile();
                        }
                        main();
                case '2':
                        clrscr();
                        printf("search by what?\n");
                        printf("\n1 --- search by customer number\n");
                        printf("2 --- search by customer name\n");
                        search();
                        ch=getche();
                        main();
                case '3':
                        clrscr();
                        delay(700);
                        textcolor(RED);
                        gotoxy(25,25);
                        cprintf("\nA PROJECT BY BIDUR & SUJAN");
                        delay(1500);
                        exit(1);
          }
 }


   void input()
        {
          FILE *fp=fopen("bidur.dat","rb");
          fseek (fp,0,SEEK_END);
          tl=ftell(fp);
          sl=sizeof(customer);
          ts=tl/sl;
          fseek(fp,(ts-1)*sl,SEEK_SET);
          fread(&customer,sizeof(customer),1,fp);
          printf("\ncustomer no:%d\n",++customer.number);
          fclose(fp);
          printf("         Account number:");
          scanf("%d",&customer.acct_no);
          printf("\n       Name:");
          scanf("%s",customer.name);
          printf("\n       mobile no:");
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          scanf("%f",&customer.mobile_no);
          printf("         Street:");
          scanf("%s",customer.street);
          printf("         City:");
          scanf("%s",customer.city);
          printf("         Previous balance:");
          scanf("%f",&customer.oldbalance);
          printf("         Current payment:");
          scanf("%f",&customer.payment);
          printf("         Payment date(mm/dd/yyyy):");

scanf("%d/%d/%d",&customer.lastpayment.month,&customer.lastpayment.day,&customer.la
stpayment.year);
          return;
   }

   void writefile()
   {
          FILE *fp;
          fp=fopen("bidur.dat","ab");
          fwrite(&customer,sizeof(customer),1,fp);
          fclose(fp);
          return;
   }

   void search()
   {
         char ch;
         char nam[100];
         int n,i,m=1;
         FILE *fp;
         fp=fopen("bidur.dat","rb");
         do{
                printf("\nenter your choice:");
                ch=getche();
         }while(ch!='1' && ch!='2');
         switch(ch){
              case '1':
                    fseek(fp,0,SEEK_END);
                    tl=ftell(fp);
                    sl=sizeof(customer);
                    ts=tl/sl;
                    do{
                        printf("\nchoose customer number:");
                        scanf("%d",&n);
                        if(n<=0 || n>ts)
                        printf("\nenter correct\n");
                        else{
                            fseek(fp,(n-1)*sl,SEEK_SET);
                            fread(&customer,sl,1,fp);
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                        output();
                    }
                    printf("\n\nagain?(y/n)");
                    ch=getche();
                }while(ch=='y');
                fclose(fp);
                break;
          case '2':
                fseek(fp,0,SEEK_END);
                tl=ftell(fp);
                sl=sizeof(customer);
                ts=tl/sl;
                fseek(fp,(ts-1)*sl,SEEK_SET);
                fread(&customer,sizeof(customer),1,fp);
                n=customer.number;

                do{
                    printf("\nenter the name:");
                    scanf("%s",nam);
                    fseek(fp,0,SEEK_SET);
                    for(i=1;i<=n;i++)
                    {
                         fread(&customer,sizeof(customer),1,fp);
                         if(strcmp(customer.name,nam)==0)
                         {
                            output();
                            m=0;
                            break;
                         }
                    }
                    if(m!=0)
                    printf("\n\ndoesn't exist\n");
                    printf("\nanother?(y/n)");
                    ch=getche();
                }while(ch=='y');
                fclose(fp);
          }
          return;
     }



void output()
     {
       printf("\n\n    Customer no    :%d\n",customer.number);
       printf("    Name        :%s\n",customer.name);
       printf("    Mobile no      :%.f\n",customer.mobile_no);
       printf("    Account number :%d\n",customer.acct_no);
       printf("    Street         :%s\n",customer.street);
       printf("    City           :%s\n",customer.city);
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           printf("    Old balance    :%.2f\n",customer.oldbalance);
           printf("    Current payment:%.2f\n",customer.payment);
           printf("    New balance    :%.2f\n",customer.newbalance);
           printf("    Payment date
:%d/%d/%d\n\n",customer.lastpayment.month,customer.lastpayment.day,customer.lastpay
ment.year);
           printf("    Account status :");
           textcolor(128+RED);
           switch(customer.acct_type)
              {
              case 'C':
                 cprintf("CURRENT\n\n");
                 break;
              case 'O':
                 cprintf("OVERDUE\n\n");
                 break;
              case 'D':
                 cprintf("DELINQUENT\n\n");
                 break;
              default:
                 cprintf("ERROR\\n\n");
              }
              textcolor(WHITE);
              return;
           }
```