**Banking System Code**

Batch11:

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#include<stdio.h>

#include<string.h>

#include<stdlib.h>

#include<ctype.h>

int count=0;

struct node

{

struct node \*prev;

char fname[60];

char lname[60];

char acc\_no[10];

int age;

char address[60];

char citizenship[15];

char phone[10];

float amt;

struct node \*next;

}\*first=NULL,\*last=NULL,\*temp=NULL,\*temp1=NULL;

void create()

{

int flag=0;

int i;

char acc\_no[10];

char fname[60];

char lname[60];

int age;

char address[60];

char citizenship[15];

char phone[10];

float amt;

temp=(struct node \*)malloc(sizeof(struct node));

printf("\t\t\t ADD RECORD ");

printf("\n\n\*\*IMPORTANT NOTE: while entering names and addresses DO NOT Enter SPACES between.\n\n");

line1:

printf("\nEnter 8 digit account number:");

scanf("%s",temp->acc\_no);

if(strlen(temp->acc\_no)==8)

{

for (i = 0; i<8 ; i++)

{

if(isalpha(temp->acc\_no[i])!=0)

{

flag=1;

break;

}

else

flag=0;

}

if(flag==1)

{

printf("Wrong Input... \n Try again\n ");

goto line1;

}

else

goto line2;

}

else

{

printf("Wrong Input... \n Try again\n ");

goto line1;

}

line2:

printf("\nEnter first name:");

scanf("%s",temp->fname);

printf("\nEnter last name:");

scanf("%s",temp->lname);

printf("\nEnter the age:");

scanf("%d",&temp->age);

printf("\nEnter the address:");

scanf("%s",temp->address);

line3:

printf("\nEnter the Aadhar number(12 digits): ");

scanf("%s",temp->citizenship);

if(strlen(temp->citizenship)==12)

{

for (i = 0; i<12 ; i++)

{

if(isalpha(temp->citizenship[i])!=0)

{

flag=1;

break;

}

else

flag=0;

}

if(flag==1)

{

printf("Wrong Input... \n Try again\n ");

goto line3;

}

else

goto line4;

}

else

{

printf("Wrong Input... \n Try again\n ");

goto line3;

}

line4:

printf("\nEnter the phone number(10 digits): ");

scanf("%s",temp->phone);

if(strlen(temp->phone)==10)

{

for (i = 0; i<10 ; i++)

{

if(isalpha(temp->phone[i])!=0)

{

flag=1;

break;

}

else

flag=0;

}

if(flag==1)

{

printf("Wrong Input... \n Try again\n ");

goto line4;

}

else

goto line6;

}

else

{

printf("Wrong Input... \n Try again\n ");

goto line4;

}

line6:

printf("\nEnter the amount to deposit:Rs.");

scanf("%f",&temp->amt);

temp->prev=NULL;

temp->next=NULL;

count++;

}

void insertatfirst()

{

create();

if(first==NULL)

{

first=temp;

last=first;

}

else

{

first->prev=temp;

temp->next=first;

first=temp;

}

}

void display()

{

if(first==NULL)

{

printf("\nNo Accounts\n");

return;

}

else

{

temp=first;

printf("\nACC. NO.\tNAME\t\tAGE\tAADHAR No.\tADDRESS\t\t\tPHONE\t\tBALANCE\n");

while(temp!=NULL)

{

printf("\n%s\t %8s %s\t%d\t%s\t%8s\t%s\tRs.%f",temp->acc\_no,temp->fname,temp->lname,temp->age,temp->citizenship,temp->address,temp->phone,temp->amt);

temp=temp->next;

printf("\n");

}

}

}

void edit()

{

printf("\n\n\*\*IMPORTANT NOTE: while entering names and addresses DO NOT Enter SPACES between.\n\n");

int f=0;

char nwfname[60];

char nwlname[60];

char nwphone[10];

char nwcitizenship[12];

char nwaddress[60];

char ac\_no[10];

int ed,nwage,i,flag=0;

temp=first;

printf("\nEnter acc no. to edit details\n");

scanf("%s",ac\_no);

while(temp!=NULL)

{

if(strcmp(ac\_no,temp->acc\_no)==0)

{

f=1;

break;

}

temp=temp->next;

}

if(f==1)

{

printf("\t1.To edit name\n");

printf("\t2.To edit age\n");

printf("\t3.To edit address\n");

printf("\t4.To edit phone number\n");

printf("\t5.To edit Aadhar number\n");

printf("\tEnter your choice ");

scanf("%d",&ed);

switch(ed)

{

case 1 : printf("\t\nEnter first name: ");

scanf("%s",nwfname);

strcpy(temp->fname,nwfname);

printf("\t\nEnter last name: ");

scanf("%s",nwlname);

strcpy(temp->lname,nwlname);

printf("\n Changes Saved.\n");

return;

break;

case 2 : printf("\t\nEnter new age: ");

scanf("%d",&nwage);

temp->age=nwage;

printf("\n Changes Saved.\n");

return;

break;

case 3 : printf("\t\nEnter new address: ");

scanf("%s",nwaddress);

strcpy(temp->address,nwaddress);

printf("\n Changes Saved.\n");

return;

break;

case 4 : LINE1:

printf("\t\nEnter new phone number(10 digits): ");

scanf("%s",nwphone);

if(strlen(nwphone)==10)

{

for (i = 0; i<10 ; i++)

{

if(isalpha(nwphone[i])!=0)

{

flag=1;

break;

}

else

flag=0;

}

if(flag==1)

{

printf("Wrong Input... \n Try again\n ");

goto LINE1;

}

else

goto LINE2;

}

else

{

printf("Wrong Input... \n Try again\n ");

goto LINE1;

}

LINE2:

strcpy(temp->phone,nwphone);

printf("\n Changes Saved.\n");

return;

break;

case 5: LINE3:

printf("\t\nEnter new Aadhar number(12 digits): ");

scanf("%s",nwcitizenship);

if(strlen(nwcitizenship)==12)

{

for (i = 0; i<12 ; i++)

{

if(isalpha(nwcitizenship[i])!=0)

{

flag=1;

break;

}

else

flag=0;

}

if(flag==1)

{

printf("Wrong Input... \n Try again\n ");

goto LINE3;

}

else

goto LINE4;

}

else

{

printf("Wrong Input... \n Try again\n ");

goto LINE3;

}

LINE4:

strcpy(temp->citizenship,nwcitizenship);

printf("\n Changes Saved.\n");

return;

break;

default: printf("\n Invail choice... \n try again\n");

}

}

else

{

printf("\nAccount number does not exist.\n");

}

}

void depositamt()

{

int f=0;

float dep=0;

char ac\_no[10];

temp=first;

printf("\nEnter acc no. to deposit\n");

scanf("%s",ac\_no);

while(temp!=NULL)

{

if(strcmp(ac\_no,temp->acc\_no)==0)

{

f=1;

break;

}

temp=temp->next;

}

if(f==1)

{

printf("\n%s\t %10s %s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->amt);

printf("\nEnter amt to deposit\n");

scanf("%f",&dep);

temp->amt=temp->amt+dep;

printf("\n%s\t %10s %s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->amt);

}

else

printf("\nAccount number does not exist.\n");

}

void withdrawamt()

{

int f=0;

float wit=0;

char ac\_no[10];

temp=first;

printf("\nEnter acc no. to withdraw\n");

scanf("%s",ac\_no);

while(temp!=NULL)

{

if(strcmp(ac\_no,temp->acc\_no)==0)

{

f=1;

break;

}

temp=temp->next;

}

if(f==1)

{

printf("\n%s\t %10s %s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->amt);

retry:

printf("\nEnter amt to withdraw\n");

scanf("%f",&wit);

if(wit>temp->amt)

{

printf("\nInsufficient balance... retry with amount lesser than your balance\n");

goto retry;

}

else

{

temp->amt=temp->amt-wit;

printf("\n%s\t %10s %s\tRs.%f",temp->acc\_no,temp->fname,temp->lname,temp->amt);

}

}

else

printf("\nAccount number does not exist.\n");

}

void delaccfront()

{

temp=first;

if(first==NULL)

{

printf("\nNo Accounts to delete\n");

return;

}

if(temp->next==NULL)

{

printf("\nAccount deleted is \n");

printf("\n%s\t%8s %s\t%s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->phone,temp->amt);

free(temp);

first=NULL;

}

else

{

first=temp->next;

printf("\nAccount deleted is \n");

printf("\n%s\t%8s %s\t%s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->phone,temp->amt);

free(temp);

first->prev=NULL;

}

}

void delaccend()

{

temp=first;

if(first==NULL)

{

printf("\nNO Accounts to delete\n");

return;

}

if(temp->next==NULL)

{

printf("\nAccount deleted is \n");

printf("\n%s\t%8s %s\t%s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->phone,temp->amt);

free(temp);

first=NULL;

}

else

{

temp1=last->prev;

printf("\nAccount deleted is \n");

printf("\n%s\t%8s %s\t%s\tRs.%f\n",last->acc\_no,last->fname,last->lname,last->phone,last->amt);

free(last);

last=temp1;

last->next=NULL;

}

}

void delacc()

{

int f=0;

temp=first;

if(first==NULL)

{

printf("\n No Accounts to delete\n");

return;

}

if(temp->next==NULL)

{

printf("\nAccount deleted is \n");

printf("\n%s\t%8s %s\t%s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->phone,temp->amt);

free(temp);

first=NULL;

return;

}

char ac\_no[10];

printf("\nEnter Acc no. to delete \n");

scanf("%s",ac\_no);

while(temp!=NULL)

{

if(strcmp(ac\_no,temp->acc\_no)==0)

{

f=1;

if(temp->prev==NULL)

{

delaccfront();

break;

}

if(temp->next==NULL)

{

delaccend();

break;

}

else

{

printf("\nAccount deleted is \n");

printf("\n%s\t%8s %s\t%s\tRs.%f\n",temp->acc\_no,temp->fname,temp->lname,temp->phone,temp->amt);

temp->prev->next=temp->next;

temp->next->prev=temp->prev;

free(temp);

break;

}

}

else

temp=temp->next;

}

if(f==1)

printf("\nSuccessfully deleted...\n");

else

printf("\nAccount does not exist.\n");

}

void main()

{

int ch,i,n;

int choice;

printf("\n\n\t\t\tCUSTOMER BANKING ACCOUNTS MANAGEMENT SYSTEM");

printf("\n\n\n\t\t\t WELCOME TO THE MAIN MENU ");

while(1)

{

printf("\n\n\t\t1.Create N number of new accounts\n\t\t2.Add another account\n\t\t3.View accounts list\n\t\t4.To Edit account details\n\t\t5.Deposit amount\n\t\t6.Withdraw amount\n\t\t7.Delete account\n\t\t8.Exit\n\n\n\n\n\t\t Enter your choice:");

scanf("%d",&ch);

switch(ch)

{

case 1 : printf("\nEnter the value of n : ");

scanf("%d",&n);

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

{

insertatfirst();

}

break;

case 2 : insertatfirst();

break;

case 3 : display();

break;

case 4 : edit();

break;

case 5 : depositamt();

break;

case 6 : withdrawamt();

break;

case 7 : delacc();

break;

case 8 : exit(1);

break;

default: printf("\n Incorrect input...\n");

}

}

}