#include<math.h>

#include<iostream.h>

#include<ctype.h>

#include<conio.h>

#include<graphics.h>

#include<process.h>

#include<fstream.h>

#include<dos.h>

#include<string.h>

#include<stdio.h>

union REGS in,out;

ifstream fin;

ofstream fout;

void screen(); // LOGIN SCREEN

void draw\_1(); // BANKING SCREEN

void draw\_2(); // LOANS SCREEN

void ms(); // MAIN SCREEN

void login(char[],char[]); // FUNCTION TO LOGIN

void conc(); // TO CONCLUDE AND EXIT

void create(); // TO CREATE A NEW ACCOUNT

void view(); // TO VIEW EXISTING BANK ACCOUNTS

void del(); // TO DELETE BANK ACCOUNTS

void edit(); // TO EDIT BANK ACCOUNTS

void newloan(); // TO CREATE NEW LOAN

void oldloan(); // TO VIEW EXISTING LOAN

void tariff(); // TO DISPLAY TARIFF

void clearloan(); // TO CLEAR LOANS

int search(long,int); // TO SEARCH FOR A RECORD

void Remove(int,int); // TO REMOVE A RECORD

void display(int,int); // TO DISPLAY A SPECIFIC RECORD

void declare(int); // TO WITHDRAW OR DEPOSITE

void modify(int,unsigned long); // TO MODIFY A SPECIFIC RECORD

void bank(); // TO DISPLAY TRANASACTIONS SCREEN

int r,z,l,k;

void hit() // A BREAK TO RETURN TO MAIN SCREEN

{

cleardevice();

setcolor(10);

settextstyle(1,0,3);

outtextxy(30,30,"PRESS ANY KEY");

}

void screen()

{

cleardevice();

setcolor(10);

settextstyle(3,0,0);

outtextxy(200,15,"W E L C O M E");

setcolor(RED);

setlinestyle(0,2,3);

line(190,60,450,60);

setcolor(14);

outtextxy(60,70," ");

setlinestyle(3,2,3);

// line(60,110,130,110);

outtextxy(130,100,"GLOBAL BANK OF INDIA");

int poly[]={200,150,90,350,310,350,200,150};

setcolor(GREEN);

setfillstyle(1,12);

fillpoly(4,poly);

setcolor(BROWN);

circle(200,205,55);

circle(90,350,55);

circle(310,350,55);

setfillstyle(1,CYAN);

floodfill(200,205,BROWN);

floodfill(90,350,BROWN);

floodfill(310,350,BROWN);

setcolor(15);

outtextxy(190,190,"G");

outtextxy(80,330,"U");

outtextxy(310,330,"I");

setcolor(BLUE);

outtextxy(150,280," FS");

setcolor(8);

outtextxy(100,420,"Graphical User Interface");

setcolor(12);

settextstyle(3,0,1);

outtextxy(250,455," Powered by Global Academy of Technology ");

gotoxy(55,14);

cout<<"LOGIN !!";

char usn[10];

gotoxy(50,17);

cout<<"ENTER USERNAME : ";

cin>>usn;

gotoxy(50,18);

cout<<"ENTER PASSCODE : ";

int i=0;

char ch,x,c[20];

while(i>=0)

{

ch=getch();

if(ch==13)

{

login(usn,c);

break;

}

c[i]=ch;

cout<<"\*";

c[i+1]='\0';

i++;

}

}

// TO DISPLAY MOUSE

void callmouse()

{

in.x.ax=1;

int86(51,&in,&out);

in.x.ax=7;

in.x.cx=1;

in.x.dx=650;

int86(51,&in,&out);

in.x.ax=8;

in.x.cx=10;

in.x.dx=500;

int86(51,&in,&out);

}

// TO HIDE MOUSE

void hidemouse()

{

in.x.ax=2;

int86(51,&in,&out);

}

// DISPLAY LOADING SCREEN

void load()

{

cleardevice();

settextstyle(1,0,3);

setcolor(RED);

outtextxy(250,200,"LOADING......");

setlinestyle(SOLID\_LINE,0,2);

line(0,400,0,450);

for(int i=0;i<=650;i++)

{

setcolor(8);

line(i,400,i,450);

delay(2);

}

}

void main() // MAIN FUNC !!!!

{

int g=DETECT,m;

r=l=1;

initgraph(&g,&m,"\\tc\\bgi");

cleardevice();

screen();

while(z==1)

{

load();

ms();

getch();

}

closegraph();

}

void login(char usn[],char pass[])

{

if(strcmp(usn,"worldbank")==0 && strcmp(pass,"money")==0)

{

hidemouse();

z=1;

}

else

{

gotoxy(55,20);

cout<<"Invalid Passcode... !!";

getch();

clrscr();

screen();

}

}

void ms()

{

cleardevice();

setlinestyle(0,1,3);

settextstyle(1,0,1);

setcolor(10);

rectangle(50,50,285,185);

outtextxy(125,110,"BANKING");

setcolor(14);

rectangle(330,50,565,185);

outtextxy(415,110,"LOANS");

setcolor(12);

circle(300,270,70);

outtextxy(280,260,"EXIT");

setcolor(9);

arc(280+10,340,180,315,100);

arc(300+10,340,225,0,100);

while(!kbhit())

{

callmouse();

in.x.ax=3;

int86(51,&in,&out);

if(out.x.bx==1 && out.x.cx>=50 && out.x.dx>=50 && out.x.cx<=285 && out.x.dx<=185)

{

r=1;

hidemouse();

while(r==1)

{

load();

draw\_1();

if(r==0)

break;

getch();

}

z=1;

}

if(out.x.bx==1 && out.x.cx>=330 && out.x.dx>=50 && out.x.cx<=565 && out.x.dx<=185)

{

l=1;

hidemouse();

while(l==1)

{

load();

draw\_2();

if(l==0)

break;

getch();

}

z=1;

}

if(out.x.bx==1 && out.x.cx>=230 && out.x.dx>=200 && out.x.cx<=370 && out.x.dx<=340)

{

hidemouse();

conc();

z=0;

}

}

}

void draw\_2()

{

cleardevice();

setlinestyle(0,1,3);

settextstyle(1,0,2);

setcolor(14);

rectangle(50,50,275,175);

outtextxy(105,100,"NEW LOAN");

setcolor(12);

rectangle(375,50,600,175);

outtextxy(415,100,"EXISTING LOANS");

setcolor(3);

rectangle(50,300,275,425);

outtextxy(100,350,"CLEAR LOANS");

setcolor(2);

rectangle(375,300,600,425);

outtextxy(450,350,"TARIFF");

setcolor(6);

circle(325,236,50);

outtextxy(300,225,"BACK");

while(!kbhit())

{

callmouse();

in.x.ax=3;

int86(51,&in,&out);

if(out.x.bx==1 && out.x.cx>=50 && out.x.dx>=50 && out.x.cx<=275 && out.x.dx<=175)

{

hidemouse();

newloan();

}

else if(out.x.bx==1 && out.x.cx>=375 && out.x.dx>=50 && out.x.cx<=600 && out.x.dx<=175)

{

hidemouse();

oldloan();

}

else if(out.x.bx==1 && out.x.cx>=50 && out.x.dx>=300 && out.x.cx<=275 && out.x.dx<=425)

{

hidemouse();

clearloan();

}

else if(out.x.bx==1 && out.x.cx>=375 && out.x.dx>=300 && out.x.cx<=600 && out.x.dx<=425)

{

hidemouse();

tariff();

}

else if(out.x.bx==1 && out.x.cx>=275 && out.x.dx>=186 && out.x.cx<=375 && out.x.dx<=286)

{

hidemouse();

l=0;

hit();

}

}

}

void draw\_1()

{

cleardevice();

setlinestyle(0,1,3);

settextstyle(1,0,2);

setcolor(14);

rectangle(50,50,275,175);

outtextxy(90,100,"CREATE/DELETE");

outtextxy(50,20,"left click to create");

outtextxy(50,180,"right click to delete");

setcolor(12);

rectangle(375,50,600,175);

outtextxy(450,100,"V I E W");

setcolor(3);

rectangle(50,300,275,425);

outtextxy(120,350,"MODIFY");

setcolor(2);

rectangle(375,300,600,425);

outtextxy(420,350,"TRANSACTIONS");

setcolor(6);

circle(325,236,50);

outtextxy(300,225,"BACK");

while(!kbhit())

{

callmouse();

in.x.ax=3;

int86(51,&in,&out);

if(out.x.bx==1 && out.x.cx>=50 && out.x.dx>=50 && out.x.cx<=275 && out.x.dx<=175)

{

hidemouse();

create();

}

else if(out.x.bx==1 && out.x.cx>=375 && out.x.dx>=50 && out.x.cx<=600 && out.x.dx<=175)

{

hidemouse();

view();

}

else if(out.x.bx==2 && out.x.cx>=50 && out.x.dx>=50 && out.x.cx<=275 && out.x.dx<=175)

{

hidemouse();

del();

}

else if(out.x.bx==1 && out.x.cx>=50 && out.x.dx>=300 && out.x.cx<=275 && out.x.dx<=425)

{

hidemouse();

edit();

}

else if(out.x.bx==1 && out.x.cx>=375 && out.x.dx>=300 && out.x.cx<=600 && out.x.dx<=425)

{

hidemouse();

bank();

}

else if(out.x.bx==1 && out.x.cx>=275 && out.x.dx>=186 && out.x.cx<=375 && out.x.dx<=286)

{

hidemouse();

r=0;

hit();

}

}

hidemouse();

}

class banking

{

public:

int num;

long double amt;

char name[50];

int getdet(); // TO GET BANKING DETAILS

void showdet(); // TO DISPLAY BANKING DETAILS

}acc; // OBJECT OF BANKING

int banking :: getdet()

{

clrscr();

cleardevice();

setcolor(2);

settextstyle(3,0,3);

outtextxy(160,10," UPDATING SPECIFIC RECORD\n\n");

cout<<"\n\n\n\n";

cout<<" \n Enter Accno : ";

cin>>num;

if(search(num,1)==0)

{

cout<<" \n Enter Name (max 50 characters) : ";

gets(name);

cout<<" \n Enter Amt : ";

cin>>amt;

return 1;

}

else

{

cout<<"\n not possible";

return 0;

}

}

void banking :: showdet()

{

clrscr();

cleardevice();

setcolor(2);

settextstyle(3,0,3);

outtextxy(160,10," DISPLAYING SPECIFIC RECORD\n\n");

cout<<"\n\n\n\n";

cout<<"\n\n\n\n Account Number : " <<num;

cout<<"\n\n\n\n Name : "<<name;

cout<<"\n\n\n\n Balance Amt : "<<amt;

}

class loan

{

public:

int id;

unsigned long int principle;

int rate;

long double l\_amt;

long double emi;

char code[8];

char name[20];

int time;

float r;

void getdet\_l(); // TO GET LOAN DETAILS

void showdet\_l(); // TO SHOW LOAN DETAILS

void disp\_amt() // TO CALCULATE LOAN AMOUNT OR EMI

{

long double t1,t2;

r=rate/100.0;

t1=pow(1+r,time);

t2=(pow(1+r,time)-1);

emi = principle \* r \* t1 / t2;

cout<<"\n\n\t E M I : "<<emi;

l\_amt = emi\*time;

cout<<"\n\t Total amount to be cleared : "<<l\_amt;

cout<<"\n\n\t EXTRA Interest Amount : "<<l\_amt-principle;

}

void rate\_l() // TO CALCULATE RATE OF INTEREST

{

if(strcmp(code,"h001")==0)

rate=15;

else if(strcmp(code,"v002")==0)

rate=12;

else if(strcmp(code,"g003")==0)

rate=10;

else if(strcmp(code,"e004")==0)

rate=8;

else if(strcmp(code,"p005")==0)

rate=18;

else

rate=0;

if(rate==0)

cout<<" \n Invalid Code "<<"\n TRY AGAIN ";

else

{

cout<<"\n\n\n Rate of Interest = "<<rate<<"%";

disp\_amt();

}

}

}loanee; // OBJECT OF LOAN

void loan::getdet\_l()

{

cout<<" Enter Name (max 6 characters) : ";

gets(name);

cout<<" Enter Principal Amount : ";

cin>>principle;

cout<<" Enter Time Period ( in months ) : ";

cin>>time;

cout<<" Enter code : ";

gets(code);

}

void loan::showdet\_l()

{

setcolor(2);

clrscr();

cleardevice();

settextstyle(3,0,3);

outtextxy(90,10," DISPLAYING DETAILS OF SPECIFIC RECORD\n\n");

cout<<"\n\n\n\n";

cout<<"\n\n Name : ";

puts(name);

cout<<"\n\n Code : ";

puts(code);

cout<<"\n\n Principal Amount : ";

cout<<principle;

cout<<"\n\n Time Period ( in months ) : ";

cout<<time<<endl;

cout<<"\n\n Rate : "<<rate <<"%";;

cout<<"\n\n Remaning Loan To Be Cleared : "<<l\_amt;

}

void create()

{

char ch='y';

int y;

while(tolower(ch)=='y')

{

textcolor(14);

clrscr();

cleardevice();

setcolor(14);

settextstyle(3,0,3);

outtextxy(180,10," CREATE AN ACCOUNT\n\n");

cout<<"\n\n\n\n";

cout<<" Enter Account Number : ";

cin>>y;

k=search(y,1);

if(k==0)

{

fout.open("Bank.dat",ios::app|ios::binary);

acc.num=y;

cout<<"\n Enter Name (max 50 characters) : ";

gets(acc.name);

AMT:

cout<<"\n Enter Starting Amount (min 1000) : ";

cin>>acc.amt;

if(acc.amt>=1000)

{

fout.write((char\*) &acc,sizeof(acc));

fout.close();

cout<<" \n\n\n\n\n ACCOUNT CREATED ......!! ";

cout<<"\n\n\n Do You Want To ADD again y/n : ";

ch=getch();

cout<<ch;

}

else

{

cout<<"\n\n Minimum Balance REQUIRED "<<endl;

goto AMT;

}

}

else

{

cout<<" \n Account Already Exists ";

getch();

hidemouse();

break;

}

}

r=1;

}

void view()

{

int ch;

do

{

clrscr();

cleardevice();

setcolor(12);

settextstyle(3,0,3);

outtextxy(190,10," VIEWING RECORDS\n\n");

cout<<"\n\n\n\n\n\n";

cout<<"\n\n 1. Specific Record ";

cout<<"\n\n 2. Full List";

cout<<"\n\n 3. Exit";

cout<<"\n\n ENTER YOUR CHOICE : ";

cin>>ch;

switch(ch)

{

case 1:

cout<<"\n\n \tEnter Account Number to SEARCH : ";

int y;

cin>>y;

k=search(y,1);

if(k==0)

cout<<" \n\n\n\t\tAccount No. "<<y<<" Does Not Exist";

else

display(y,1);

getch();

break;

case 2:

clrscr();

cleardevice();

setcolor(2);

settextstyle(3,0,3);

outtextxy(190,10," DISPLAYING ALL RECORDS\n\n");

cout<<"\n\n\n\n";

fin.open("Bank.dat",ios::binary);

settextstyle(2,0,2);

setcolor(3);

outtextxy(10,65,"#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

cout<<"\n\n\n";

cout<<" NAME\t\t\tACCOUNT NUMBER\t\t\tBALANCE"<<endl;

settextstyle(2,0,2);

setcolor(3);

outtextxy(10,160,"#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

cout<<"\n\n\n";

while(fin.read((char\*)&acc,sizeof(acc)))

{

cout<<" "<<acc.name<<" \t\t\t "<<acc.num<<" \t\t\t\t "<<acc.amt<<endl;

}

fin.close();

getch();

break;

case 3:

r=1;

setcolor(7);

settextstyle(3,0,1);

outtextxy(250,380,"HIT ENTER AGAIN");

break;

default:cout<<"\n\n\t\tENTER A VALID CHIOOICE ";break;

}

}while(ch!=3);

}

void del()

{

int ch;

do

{

clrscr();

cleardevice();

setcolor(14);

settextstyle(3,0,3);

outtextxy(190,10," DELETING RECORDS\n\n");

cout<<"\n\n\n\n";

cout<<" \n\n\n 1. Specific Record ";

cout<<" \n\n\n 2. All Records ";

cout<<" \n\n\n 3. Exit ";

cout<<" \n\n\n\t ENTER YOUR CHOICE : ";

cin>>ch;

switch(ch)

{

case 1:

cout<<" \n\n\t\tEnter Account Number : ";

int y;

cin>>y;

k=search(y,1);

if(k==0)

cout<<"\n\n\t\t\t Account No. "<<y<<" does Not Exist";

else

{

Remove(y,1);

cout<<"\n\n\n\t\t\tACCOUNT DELETED";

}

getch();

break;

case 2:

remove("Bank.dat");

cout<<"\n\n\n\n\t\t\t\t ALL ACCOUNTS DELETED";

getch();

break;

case 3:

hidemouse();

r=1;

setcolor(7);

settextstyle(3,0,1);

outtextxy(250,380,"HIT ENTER AGAIN");

break;

}

}while(ch<3);

}

void edit()

{

int e;

char ch='y';

textcolor(CYAN);

clrscr();

cleardevice();

setcolor(3);

settextstyle(3,0,3);

outtextxy(190,10," UPDATING RECORDS\n\n");

cout<<"\n\n\n\n";

int x;

while(tolower(ch)=='y')

{

cout<<"\n\n\n\n\t Enter Account Number : ";

cin>>x;

k=search(x,1);

if(k==1)

{

modify(x,1);

cout<<"\n\n\n Do you want to MODIFY another one (y/n) : ";

cin>>ch;

}

else

{

cout<<"\n\n\n\t\t\tAccount No. "<<x<<" Does not Exist";

break;

}

}

r=1;

}

void modify(int x,unsigned long f)

{ int m;

if(f==1)

{

banking acc\_m;

m=acc\_m.getdet();

if(m==1)

{

fin.open("Bank.dat",ios::in|ios::binary);

fout.open("temp.dat",ios::out|ios::binary);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num==x)

fout.write((char\*)&acc\_m,sizeof(acc\_m));

else

fout.write((char\*)&acc,sizeof(acc));

}

fout.close();

fin.close();

remove("Bank.dat");

rename("temp.dat","Bank.dat");

cout<<"\n\n\n Record Updated.........";

}

}

else

{

loan loanee\_m;

fin.open("Loan.dat",ios::in|ios::binary);

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

if(loanee.id==x)

loanee\_m=loanee;

}

fin.close();

loanee\_m.l\_amt=f;

fin.open("Loan.dat",ios::in|ios::binary);

fout.open("temp.dat",ios::out|ios::binary);

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

if(loanee.id==x)

fout.write((char\*)&loanee\_m,sizeof(loanee\_m));

else

fout.write((char\*)&loanee,sizeof(loanee));

}

fout.close();

fin.close();

remove("Loan.dat");

rename("temp.dat","Loan.dat");

}

}

void bank()

{

int y;

clrscr();

cleardevice();

setcolor(2);

settextstyle(3,0,3);

outtextxy(210,10," BANKING TRANSACTIONS\n\n");

cout<<"\n\n ";

cout<<"\n\n Enter Account Number : ";

cin>>y;

k=search(y,1);

if(k==1)

{

hidemouse();

declare(y);

}

else

{

cout<<"\n\n\n Account No. "<<y<<" Does Not Exist ";

getch();

hidemouse();

}

r=1;

}

void conc()

{

cleardevice();

hidemouse();

setcolor(2);

settextstyle(1,0,3);

outtextxy(20,15,"tHaNk YoU FoR uSiNg BanK MaNaGeMeNT sYsTeM !!!! " );

setcolor(3);

settextstyle(1,0,1);

outtextxy(20,80,"DONE BY :-");

outtextxy(50,110,"NARSIMHAN N - 1GA15IS024");

outtextxy(50,130,"SURAJ S - 1GA15IS044");

setcolor(12);

settextstyle(3,0,1);

outtextxy(70,200,"");

outtextxy(50,220," Powered by Global Academy of Technology ");

setcolor(14);

settextstyle(3,0,0);

outtextxy(200,300,".....Hit To Continue.....");

setcolor(6);

setlinestyle(3,0,3);

ellipse(370,325,0,360,200,50);

}

int search(long y,int f)

{

int flag=0;

if(f==1)

{

fin.open("Bank.dat",ios::binary);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num==y)

{

flag=1;

}

}

fin.close();

}

else

{

fin.open("Loan.dat",ios::binary);

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

if(loanee.id==y)

{

flag=1;

}

}

fin.close();

}

return flag;

}

void display(int a,int f)

{

if(f==1)

{

fin.open("Bank.dat",ios::binary);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num==a)

acc.showdet();

}

fin.close();

}

else

{

fin.open("Loan.dat",ios::binary);

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

if(loanee.id==a)

loanee.showdet\_l();

}

fin.close();

}

}

void Remove(int k,int f)

{

if(f==1)

{

fin.open("Bank.dat",ios::in|ios::binary);

fout.open("temp.dat",ios::out|ios::binary);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num!=k)

fout.write((char\*)&acc,sizeof(acc));

}

fout.close();

fin.close();

remove("Bank.dat");

rename("temp.dat","Bank.dat");

}

else

{

fin.open("Loan.dat",ios::in|ios::binary);

fout.open("temp.dat",ios::out|ios::binary);

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

if(loanee.id!=k)

fout.write((char\*)&loanee,sizeof(loanee));

}

fout.close();

fin.close();

remove("Loan.dat");

rename("temp.dat","Loan.dat");

}

}

void declare(int a)

{

long double dep;

int w;

banking acc\_b;

setlinestyle(1,1,3);

settextstyle(3,0,2);

setcolor(2);

rectangle(355,100,600,225);

rectangle(55,100,300,225);

setcolor(12);

outtextxy(420,150,"WITHDRAW");

outtextxy(140,150,"DEPOSIT");

while(!kbhit())

{

callmouse();

in.x.ax=3;

int86(51,&in,&out);

if(out.x.bx==1 && out.x.cx>=355 && out.x.dx>=100 && out.x.cx<=600 && out.x.dx<=225)

{

fin.open("Bank.dat",ios::binary);

gotoxy(15,18);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num==a)

{

cout<<" \t\t CURRENT AMOUNT : "<<acc.amt;

cout<<"\n\n\t\t Enter Amount to WITHDRAW : ";

cin>>dep;

if(dep<=acc.amt)

{

acc.amt-=dep;

acc\_b=acc;

acc\_b.amt=acc.amt;

cout<<" \n\n\n\t\t ThAnK yOu!! transaction successful.....!!!!! ";

cout<<" \n\n\n\t\t\t BALANCE AMOUNT : " <<acc.amt;

w=1;

}

else

{

cout<<"\n\n\n\t\t INSUFFIENT FUNDS !! :P ";

w=0;

}

}

}

fin.close();

if(w==1)

{

fin.open("Bank.dat");

fout.open("temp.dat",ios::binary);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num==a)

fout.write((char\*)&acc\_b,sizeof(acc\_b));

else

fout.write((char\*)&acc,sizeof(acc));

}

fout.close();

fin.close();

remove("Bank.dat");

rename("temp.dat","Bank.dat");

}

}

else if(out.x.bx==1 && out.x.cx>=55 && out.x.dx>=100 && out.x.cx<=300 && out.x.dx<=225)

{

fin.open("Bank.dat",ios::binary);

gotoxy(15,18);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num==a)

{

cout<<" \t\t CURRENT AMOUNT : "<<acc.amt;

cout<<"\n\n\t\t Enter Amount to DEPOSIT : ";

cin>>dep;

acc.amt+=dep;

acc\_b=acc;

acc\_b.amt=acc.amt;

cout<<" \n\n\n\t\t ThAnK yOu!! transaction successful.....!!!!! ";

cout<<" \n\n\n\t\t\t BALANCE AMOUNT : " <<acc.amt;

}

}

fin.close();

fin.open("Bank.dat");

fout.open("temp.dat",ios::binary);

while(fin.read((char\*)&acc,sizeof(acc)))

{

if(acc.num==a)

fout.write((char\*)&acc\_b,sizeof(acc\_b));

else

fout.write((char\*)&acc,sizeof(acc));

}

fout.close();

fin.close();

remove("Bank.dat");

rename("temp.dat","Bank.dat");

}

}

}

void newloan()

{

char ch='y';

int y;

while(tolower(ch)=='y')

{

textcolor(14);

clrscr();

cleardevice();

setcolor(14);

settextstyle(3,0,3);

outtextxy(190,10," CREATE A NEW LOAN\n\n");

cout<<"\n\n\n\n";

cout<<"\n Enter Loan ID ( max 3 digits ) : ";

cin>>y;

k=search(y,2);

if(k==0)

{

loanee.id=y;

loanee.getdet\_l();

loanee.rate\_l();

//loanee.disp\_amt();

fout.open("Loan.dat",ios::app|ios::binary);

fout.write((char\*)&loanee,sizeof(loanee));

fout.close();

if(loanee.rate!=0 && loanee.principle!=0)

cout<<"\n\n\n\n Loan Created ......!! ";

if(loanee.rate==0 || loanee.principle==0)

Remove(loanee.id,2);

cout<<" \n\n Do You Want To CREATE another loan (y/n) : ";

ch=getch();

cout<<ch;

}

else

{

cout<<" \n Loan Already Exists ";

//getch();

hidemouse();

break;

}

}

l=1;

}

void oldloan()

{

int ch;

do

{

textcolor(RED);

clrscr();

cleardevice();

setcolor(14);

settextstyle(3,0,3);

outtextxy(190,10," VIEWING LOANS\n\n");

cout<<"\n\n\n\n\n";

cout<<"\n\n 1. Specific Loan ";

cout<<"\n\n 2. Full List";

cout<<"\n\n 3. Exit";

cout<<"\n\n\n ENTER YOUR CHOICE : ";

cin>>ch;

switch(ch)

{

case 1:

cout<<"\n\n \tEnter Loan ID to SEARCH : ";

int y;

cin>>y;

k=search(y,2);

if(k==0)

cout<<"\n\n\t\tNo Loan Exists With The ID : "<<y;

else

display(y,2);

getch();

break;

case 2:

int a=0;

clrscr();

cleardevice();

setcolor(2);

settextstyle(3,0,3);

outtextxy(150,10," DISPLAYING ALL LOAN DETAILS\n\n");

fin.open("Loan.dat",ios::binary);

settextstyle(2,0,2);

setcolor(3);

outtextxy(7,65,"#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

cout<<"\n\n\n\n\n\n";

cout<<" NAME LOAN ID TYPE CODE PRINCIPLE AMT BALANCE AMT TIME PERIOD"<<endl;

settextstyle(2,0,2);

setcolor(3);

outtextxy(7,125,"#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

cout<<"\n\n\n";

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

cout<<loanee.name<<" \t "<<loanee.id<<"\t\t"<<loanee.code<<"\t "<<loanee.principle<<"\t "<<loanee.l\_amt<<"\t "<<loanee.time<<endl;

a++;

}

fin.close();

//outtextxy(10,((a\*60)+100),"\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

getch();

break;

case 3:

l=1;

setcolor(7);

settextstyle(3,0,1);

outtextxy(250,300," HIT ENTER AGAIN");

break;

}

}while(ch<3);

}

void clearloan()

{

char ch='y';

loan loanee\_b;

int x,z;

while(ch=='y'||ch=='Y')

{

clrscr();

cleardevice();

setcolor(CYAN);

settextstyle(3,0,3);

outtextxy(190,10," CLEARING LOANS\n\n");

cout<<"\n\n\n\n ";

cout<<"\n Enter Loan ID : ";

cin>>x;

z=search(x,2);

if(z==1)

{

fin.open("Loan.dat",ios::binary);

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

if(loanee.id==x)

{

cout<<" \t\t CURRENT LOAN AMOUNT : "<<loanee.l\_amt;

cout<<" \n\t\t LOAN AMOUNT CLEARED : " <<loanee.emi;

loanee.l\_amt-=loanee.emi;

--loanee.time;

if(loanee.time==0)

loanee.l\_amt=0;

cout<<" \n\n\n\t\t ThAnK yOu!! ";

cout<<" \n\n\t\t REMAINING LOAN AMOUNT : "<<loanee.l\_amt;

cout<<" \n\t\t REMAINING TIME LEFT : "<<loanee.time;

loanee\_b=loanee;

}

}

fin.close();

fin.open("Loan.dat",ios::binary);

fout.open("temp.dat",ios::binary);

while(fin.read((char\*)&loanee,sizeof(loanee)))

{

if(loanee.id==x)

fout.write((char\*)&loanee\_b,sizeof(loanee\_b));

else

fout.write((char\*)&loanee,sizeof(loanee));

}

fout.close();

fin.close();

remove("Loan.dat");

rename("temp.dat","Loan.dat");

if(loanee\_b.l\_amt==0 || loanee\_b.time==0)

{

cout<<" \n\n CONGO LOAN CLEARED !!! :D";

Remove(x,2);

}

cout<<" \n\n Do You Want To CLEAR another loan (y/n) : ";

ch=getch();

cout<<ch;

}

else

{

cout<<"\n\n\t\tNo Loan Exists With The ID : "<<x;

}

}

l=1;

}

void tariff()

{

cleardevice();

setcolor(14);

settextstyle(3,0,0);

outtextxy(250,12,"TARRIF");

settextstyle(2,0,2);

setcolor(3);

outtextxy(10,70,"#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

setcolor(10);

settextstyle(3,0,2);

outtextxy(20,90,"TYPE OF LOAN CODE RATE OF INTEREST ");

settextstyle(2,0,2);

setcolor(3);

outtextxy(10,120,"#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

settextstyle(2,1,2);

settextstyle(2,1,2);

outtextxy(210,70,"\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

outtextxy(380,70,"\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

settextstyle(2,0,2);

outtextxy(10,320,"#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*##\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*#\*");

setcolor(12);

settextstyle(1,0,2);

outtextxy(10,150," HOUSING LOAN h001 15%");

outtextxy(10,180," VEHICLE LOAN v002 12%");

outtextxy(10,240," EDUCATION LOAN e004 8%");

outtextxy(10,210," GOLD LOAN g003 10%");

outtextxy(10,270," PERSONAL LOAN p005 18%");

getch();

setcolor(7);

settextstyle(3,0,1);

outtextxy(250,380,"HIT AGAIN");

l=1;

}