

**Fatima Jinnah Women University**

Department Of Software Engineering

**Course Title**

Programming fundamental

**Submitted To**

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***ATM MANAGEMENT SYSTEM***

***Introduction***

ATMs are Automated Teller Machines that are used to carry day-to-day financial transactions. ATMs can be used to withdraw money or to deposit money or even to know the information of an account like the balance amount, etc. They are convenient and easy to use, it allows consumers to perform quick self-service transactions.

This program is a menu-driven program having ATM functions which include:

1.Enter Name, Account number, Account type to be shown during transactions.

2. Shows the information about the person who is doing the transaction.

3.Enter the amount to be deposited in the account.

4.Shows the Balance in the account.

5.Enter the amount to be withdrawn from the account, and then it shows available balance.

6 Cancel the transaction.

Functions

**setvalue()**: This function is used here to set the data using basic input and output methods in C++ i.e., cout and cin statements which display and take input from the keyboard i.e., from the user respectively.

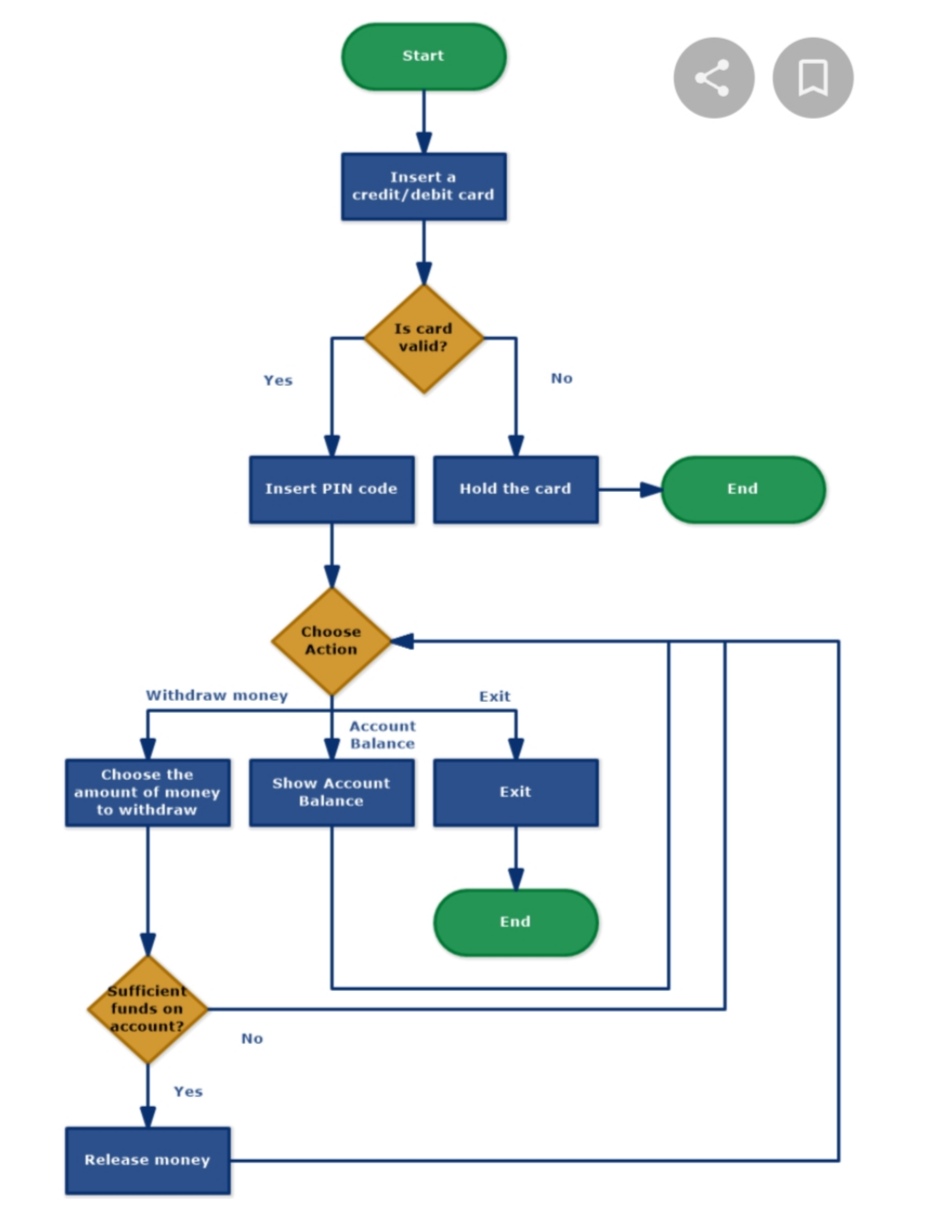
**showvalue()**: This function is used to print the data.

**deposit()**: This function helps to deposit money in a particular account.

**showbal()**: This function shows the total balance available after deposition.

**withdrawal()**: This function helps to withdraw money from the account.

**main()**: This function is a simple switch case (to make choices) inside an infinite while loop so that every time the user gets to select choices.



**CODE:**

#include<iostream>

#include<fstream>

#include<string>

using namespace std;

void transaction();

fstream f1;

int change\_password();

void complaint();

struct customer

{

char name[100];

int pass;

double accno;

double balance;

};

struct password

{

char name[100];

int accno, security;

};

int main()

{ int userchoice;

f1.open("E: Withdrawal", ios::out);

int x,y,z;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WELCOME TO STANDARD CHATTERED ATM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Main Menu \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

f1<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WELCOME TO STANDARD CHATTERED ATM\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

f1<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Main Menu \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Select operation you want to perform\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<" 1 for Money Withdrawal"<<endl;

cout<<" 2 for Changing Password"<<endl;

cout<<" 3 for Complaint and Feedback"<<endl;

cin>>userchoice;

switch(userchoice)

{

case 1:

transaction();

break;

case 2:

change\_password();

break;

case 3:

complaint();

break;

}

return 0;

system("pause");

}

void transaction()

{

int ac,password,i=4;

double amount,remain;

customer c1 ={"Bisma Ali", 2006 ,11223344,70000};

customer c2 ={"Tanzeela Asghar ", 2003 ,11122233,99000};

customer c3 ={"MAryam ", 2005 ,11112222,60000};

cout<<"Enter your Account number: "<<endl;

cin>>ac;

f1<<ac<<endl;

if(ac==c1.accno)

{

cout<<"Welcome "<<c1.name<<endl;

f1<<"Welcome "<<c1.name<<endl;

start:

cout<<"Enter your password"<<endl;

cin>>password;

f1<<"Password: "<<password<<endl;

if(password==c1.pass)

{

cout<<"Your Current balance is: "<<c1.balance<<endl;

cout<<"Select Ammount you want to with draw"<<endl;

cout<<" 5,000 10,000 25,000 50,000"<<endl;

cin>>amount;

f1<<"Your Current balance is: "<<c1.balance<<endl;

f1<<"Select Ammount you want to with draw"<<endl;

f1<<" 5,000 10,000 25,000 50,000"<<endl;

f1<<amount;

if(amount>c1.balance)

{

cout<<"Transaction Unsuccessful.Your Balance is Low!!"<<endl;

f1<<"Transaction Unsuccessful.Your Balance is Low!!"<<endl;

}

else

{

remain=c1.balance-amount;

cout<<"Transaction successful!"<<endl;

cout<<"Remaining balance= "<<remain<<endl;

f1<<"Transaction successful!"<<endl;

f1<<"Remaining balance= "<<remain<<endl;

}

}

else

{

cout<<"Sorry your password is Incorrect Try again"<<endl;

f1<<"Sorry your password is Incorrect Try again"<<endl;

i--;

if(i>0)

{

cout<<"Password entries left = "<<i<<endl;

f1<<"Password entries left = "<<i<<endl;

goto start;

}

else

cout<<"your Account is Blocked"<<endl;

cout<<"Call helpline 111 222 444"<<endl;

cout<<"As long as you dont verify your identity your acoount is suspended temporarily ";

f1<<"your Account is Blocked"<<endl;

f1<<"Call helpline 111 222 444"<<endl;

f1<<"As long as you dont verify your identity your acoount is suspended temporarily ";

}

}

if(ac==c2.accno)

{

cout<<"Welcome "<<c2.name<<endl;

f1<<"Welcome "<<c2.name<<endl;

start1:

cout<<"Enter your password"<<endl;

cin>>password;

f1<<"Password: "<<password<<endl;

if(password==c2.pass)

{

cout<<"Your Current balance is: "<<c2.balance<<endl;

cout<<"Select Ammount you want to with draw"<<endl;

cout<<" 5,000 10,000 25,000 50,000"<<endl;

cin>>amount;

f1<<"Your Current balance is: "<<c2.balance<<endl;

f1<<"Select Ammount you want to with draw"<<endl;

f1<<" 5,000 10,000 25,000 50,000"<<endl;

f1<<amount;

if(amount>c2.balance)

{

cout<<"Transaction Unsuccessful.Your Balance is Low!!"<<endl;

f1<<"Transaction Unsuccessful.Your Balance is Low!!"<<endl;

}

else

{

remain=c2.balance-amount;

cout<<"Transaction successful!"<<endl;

cout<<"Remaining balance= "<<remain<<endl;

f1<<"Transaction successful!"<<endl;

f1<<"Remaining balance= "<<remain<<endl;

}

}

else

{

cout<<"Sorry your password is Incorrect Try again"<<endl;

f1<<"Sorry your password is Incorrect Try again"<<endl;

i--;

if(i>0)

{

cout<<"Password entries left = "<<i<<endl;

f1<<"Password entries left = "<<i<<endl;

goto start;

}

else

cout<<"your Account is Blocked"<<endl;

cout<<"Call helpline 111 222 444"<<endl;

cout<<"As long as you dont verify your identity your acoount is suspended temporarily ";

f1<<"your Account is Blocked"<<endl;

f1<<"Call helpline 111 222 444"<<endl;

f1<<"As long as you dont verify your identity your acoount is suspended temporarily ";

}

}

if(ac==c3.accno)

{

cout<<"Welcome "<<c3.name<<endl;

f1<<"Welcome "<<c3.name<<endl;

start2:

cout<<"Enter your password"<<endl;

cin>>password;

f1<<"Password: "<<password<<endl;

if(password==c3.pass)

{

cout<<"Your Current balance is: "<<c3.balance<<endl;

cout<<"Select Ammount you want to with draw"<<endl;

cout<<" 5,000 10,000 25,000 50,000"<<endl;

cin>>amount;

f1<<"Your Current balance is: "<<c3.balance<<endl;

f1<<"Select Ammount you want to with draw"<<endl;

f1<<" 5,000 10,000 25,000 50,000"<<endl;

f1<<amount;

if(amount>c3.balance)

{

cout<<"Transaction Unsuccessful.Your Balance is Low!!"<<endl;

f1<<"Transaction Unsuccessful.Your Balance is Low!!"<<endl;

}

else

{

remain=c3.balance-amount;

cout<<"Transaction successful!"<<endl;

cout<<"Remaining balance= "<<remain<<endl;

f1<<"Transaction successful!"<<endl;

f1<<"Remaining balance= "<<remain<<endl;

}

}

else

{

cout<<"Sorry your password is Incorrect Try again"<<endl;

f1<<"Sorry your password is Incorrect Try again"<<endl;

i--;

if(i>0)

{

cout<<"Password entries left = "<<i<<endl;

f1<<"Password entries left = "<<i<<endl;

goto start;

}

else

cout<<"your Account is Blocked"<<endl;

cout<<"Call helpline 111 222 444"<<endl;

cout<<"As long as you dont verify your identity your acoount is suspended temporarily ";

f1<<"your Account is Blocked"<<endl;

f1<<"Call helpline 111 222 444"<<endl;

f1<<"As long as you dont verify your identity your acoount is suspended temporarily ";

}

}

}

int change\_password()

{

int acc, newpin1, newpin2, sq;

password p1={"Amna", 11223344 ,1};

password p2={"Laiba", 22223344 , 2};

password p3={"Ramsha Batool" , 33223344, 3};

password p4 ={"Aliya",44223344, 4};

cout<<"Enter your account no."<<endl;

cin>>acc;

if (acc==p1.accno)

{

cout<<"Welcome "<<p1.name<<endl;

cout<<"Follow this procedure for changing your pin"<<endl;

cout<<"Answer your security question"<<endl;

cout<<"What is your lucky number?"<<endl;

cin>>sq;

if(sq==p1.security)

{

cout<<"Enter your new pin"<<endl;

cin>>newpin1;

cout<<"Re-enter your pin for confirmation"<<endl;

cin>>newpin2;

}

if(newpin2==newpin1)

{

cout<<"Pin changed Successfully"<<endl;

}

else

cout<<"Invalid Entry"<<endl;

}

else if(acc==p2.accno)

{

cout<<"Welcome "<<p2.name<<endl;

cout<<"Follow this procedure for changing your pin"<<endl;

cout<<"Answer your security question"<<endl;

cout<<"What is your lucky number?"<<endl;

cin>>sq;

if(sq==p2.security)

{

cout<<"Enter your new pin"<<endl;

cin>>newpin1;

cout<<"Re-enter your pin for confirmation"<<endl;

cin>>newpin2;

}

if(newpin2==newpin1)

{

cout<<"Pin changed Successfully"<<endl;

}

else

cout<<"Invalid Entry"<<endl;

}

else if(acc==p3.accno)

{

cout<<"Welcome "<<p3.name<<endl;

cout<<"Follow this procedure for changing your pin"<<endl;

cout<<"Answer your security question"<<endl;

cout<<"What is your lucky number?"<<endl;

cin>>sq;

if(sq==p3.security)

{

cout<<"Enter your new pin"<<endl;

cin>>newpin1;

cout<<"Re-enter your pin for confirmation"<<endl;

cin>>newpin2;

}

if(newpin2==newpin1)

{

cout<<"Pin changed Successfully"<<endl;

}

else

cout<<"Invalid Entry"<<endl;

}

else if(acc==p4.accno)

{

cout<<"Welcome "<<p4.name<<endl;

cout<<"Follow this procedure for changing your pin"<<endl;

cout<<"Answer your security question"<<endl;

cout<<"What is your lucky number?"<<endl;

cin>>sq;

if(sq==p4.security)

{

cout<<"Enter your new pin"<<endl;

cin>>newpin1;

cout<<"Re-enter your pin for confirmation"<<endl;

cin>>newpin2;

}

if(newpin2==newpin1)

{

cout<<"Pin changed Successfully"<<endl;

}

else

cout<<"Invalid Entry"<<endl;

}

}

void complaint()

{

string complain;

fstream myfile;

myfile.open("E: Complaint.txt", ios::out);

cout<<"If you have complain kindly let'us know"<<endl;

cin>>complain;

myfile<<complain<<" "<<endl;

cout<<"Your complaint has been received";

myfile.close();

}

**OUTPUT:**

