\*\*\*ATM\_SYSTEM\*\*\*

#include <stdio.h>

#include <stdlib.h>

#include <windows.h>

void displayMenu() {

printf("\nChoose an option:\n");

printf("1. Check balance\n");

printf("2. Deposit money\n");

printf("3. Withdraw money\n");

printf("4. Back\n");

}

void handleWithdrawal(float \*total\_amount) {

float withdraw;

printf("Enter amount to withdraw (multiples of 100 or 1000): ");

scanf("%f", &withdraw);

if ((int)withdraw % 100 != 0) {

printf("Amount must be a multiple of 100.\n");

} else if (withdraw > \*total\_amount) {

printf("Insufficient balance.\n");

} else {

\*total\_amount -= withdraw;

printf("Withdrawal successful. New balance: %.2f\n", \*total\_amount);

printf("Collect your money: \n");

int denominations[] = {1000, 500, 100};

for (int i = 0; i < 3; i++) {

int count = withdraw / denominations[i];

if (count > 0) {

printf("%d x %d\n", count, denominations[i]);

withdraw -= count \* denominations[i];

}

}

}

}

int main() {

int fixedPin = 4810, fixedPassword = 1234;

int userPin, userPassword, userInput;

float total\_amount = 0.0f;

printf("Welcome to ATM, please insert your card\n");

printf("Enter your 4-digit PIN: ");

scanf("%d", &userPin);

if (userPin == fixedPin) {

printf("Enter your password: ");

scanf("%d", &userPassword);

if (userPassword == fixedPassword) {

// Show pop-up for successful login

MessageBox(0, "Login successful! Welcome to your account.", "Success", MB\_OK | MB\_ICONINFORMATION);

printf("Enter initial amount to create an account: ");

scanf("%f", &total\_amount);

do {

displayMenu();

scanf("%d", &userInput);

switch (userInput) {

case 1:

printf("Your total balance is: %.2f\n", total\_amount);

break;

case 2:

{

float deposit;

printf("Enter amount to deposit: ");

scanf("%f", &deposit);

total\_amount += deposit;

printf("Deposit successful. New balance: %.2f\n", total\_amount);

}

break;

case 3:

handleWithdrawal(&total\_amount);

break;

case 4:

printf("Going back to the previous step...\n");

break;

default:

printf("Invalid option, please try again.\n");

break;

}

} while (userInput != 4);

} else {

MessageBox(0, "Incorrect password. Please try again.", "Error", MB\_OK | MB\_ICONERROR);

}

} else {

MessageBox(0, "Incorrect PIN. Please try again.", "Error", MB\_OK | MB\_ICONERROR);

}

printf("Thank you for using the ATM. Goodbye!\n");

return 0;

}