#include <time.h>

#include <stdio.h>

int x=1, loop=1, pass=696969;

char System,choice, temp[100], card='0';

void checkpin();

void services();

void withdrawal(int a, float b);

int main(){

while(loop==1){

printf("\nPass=696969\n");

printf("\n~~~~~ Out of Services ~~~~~\n");

while(x==1){

printf("Please type [1] to enable system.\n");

scanf("%s",&System);

if(System=='1')

{break;}

}

printf("\n~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\n");

printf(" Welcome to Fern ATM \n");

printf("~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\n");

while (card != '1'){

printf("\nPlease input '1' to insert card.");

scanf("%s",&card);

}

checkpin();

}

return 0;

}

void checkpin()

{

int pin, limit=3, c=0;

while (limit>=0){

printf("Enter your pin:");

scanf("%d",&pin);

if(pin!=pass )

{

printf("Access is denied.\n");

printf("You have %d chance(s) left.\n",limit);

}

else {

printf("Access is granted.\n"); c=1; break;}

limit--;

}

if(c==1){

services();}

else{

printf("Your card has been confiscated.");

}

}

void services(){

int receipt, r=1;

float Balance=5000,deposit;

while (r==1){

printf("\nPlease select your choice of services:\n");

printf("[1]Check Balance\n[2]Deposit\n[3]Withdrawal\n[4]Return Card\n");

scanf("%s",&choice);

switch(choice) //Split into 4 cases

{

case '1': //CheckBalance

printf("Your Account Balance:RM%.2f\n",Balance);

break;

case '2': //Deposit

printf("Enter amount of deposit:RM");

scanf("%f",&deposit);

Balance = Balance+deposit;

printf("\nNew Balance:RM%.2f\n", Balance);

break;

case '3'://withdrawal

printf("Do you need a receipt?\n [1] Yes\t[2] No\n");

scanf("%d",&choice);

if (choice==1){

receipt=1;}

else {

receipt=0;}

r=0;

withdrawal(receipt,Balance);

break;

case '4'://returnCard

printf("Please take your card.\n");

printf("Have a great day !");

card=0; r=0;

break;

}

}

}

void withdrawal(int receipt,float Balance)

{

float withdraw ;

printf("Which amount do you wish to choose?");

printf("\n[1]RM1000\n[2]RM500\n[3]RM200\n[4]RM100\n[5]Other Amount\n");

scanf("%s",&choice);

if (choice=='1'){

Balance= Balance-1000;

printf("\nNew Balance: RM%.2f\n",Balance);}

else if

(choice=='2'){

Balance= Balance-500;

printf("\nNew Balance: RM%.2f\n",Balance);}

else if

(choice=='3'){

Balance= Balance-200;

printf("\nNew Balance: RM%.2f\n",Balance);}

else if

(choice=='4'){

Balance= Balance-100;

printf("\nNew Balance: RM%.2f\n",Balance);}

else{

printf("\nPlease key in the amount:RM");

scanf("%f",&withdraw);

Balance= Balance-withdraw;

printf("New Balance: RM%.2f\n",Balance);}

if (Balance==0){

printf("\nThere are no funds available.\n");

printf("\nPlease take back your card.\n");card=0;}

if (Balance<withdraw){

printf("\nThere is insufficienct funds to cover the requested amount.\n");

printf("\nYour current balance:RM%.2f\n",Balance);

printf("\nDo you want reduce the amount of withdrawal?\n[1]Yes\t[2]No\n");

scanf("%d",&choice);

while (choice=='1'){

printf("Please key in the amount:Rm");

scanf("%f",&withdraw);

if (withdraw<=Balance){

break;}

}

}

if (Balance>withdraw){

printf("Please take back your card.^\_^\n");card=0;

printf("Take your cash and Have a great day!\n");

if (receipt==1){

printf("~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\n");

printf(" Receipt \n");

printf("~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\*~\n");

printf("Balance:RM%.2f\n",Balance);

time\_t current\_time = time(NULL);

struct tm \*tm = localtime(&current\_time);

strftime(temp, sizeof(temp), "%c", tm);

printf("\nCurrent Date and Time:\n");

printf("\n%s\n\n", temp);

}

}

return;

}