

PAKISTAN INSTITUTE OF ENGINEERING AND APPLIED SCIENCES

***Computing Fundamentals & Programming***

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**ATM with Functions**

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**ATM FUNCTIONS**

**C-Code to develop an ATM machine using Functions.**

**INPUT**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

int balance=100000;

int PIN=7890;

void PIN\_check(void);

void balance\_enquiry(void);

void cash\_withdraw(void);

void cash\_deposit(void);

void pin\_change(void);

void Exit();

void main()

{

int func;

puts("\n\t\t\t\*\*\*\* WELCOME TO HABIB BANK, LIMITED \*\*\*\*\*");

PIN\_check();

while(2)

{

printf("\n\tWhat do you want to do : \n\t 1. BALANCE ENQUIRY\n\t 2. CASH WITHDRAWAL ");

printf("\n\t 3. CASH DEPOSIT \n\t 4. CHANGE PIN NUMBER \n\t 5. EXIT\n\n\tChoice: ");

scanf("%d",&func);

switch(func)

{

case 1:

balance\_enquiry();

break;

case 2:

cash\_withdraw();

break;

case 3:

cash\_deposit();

break;

case 4:

pin\_change();

break;

case 5:

Exit();

default:

puts("\a\n\t\t!!!>> Invalid choice <<!!!\n");

}

}

}

void PIN\_check(void)

{

int i=0,pin;

do

{

if(i==3)

{

printf("\a\n\t\tYou have Entered wrong PIN 3 times.Your card is captured. Please contact the Bank Manager.");

getch();

exit(9);

}

printf("\t\tPlease enter your 4 digit PIN CODE in the form of XXXX\n\n\t\t\t>>> PIN : ");

scanf("%d",&pin);

if(pin!=PIN)

printf("\a\n\n\t\t\t\t << You have entered Wrong PIN >>\n");

i++;

} while(pin!=PIN);

}

void balance\_enquiry(void)

{

printf("\n \t\t\*\*\*\*\*\*\t Your Current Balance is Rs/ %d=\t\*\*\*\*\*\*\n",balance);

}

void cash\_withdraw(void)

{

int withdraw,opt;

puts("\n\tPlease Enter the Amount to Withdraw");

puts("\tNote:\(You can Withdraw a Maximum of Rs /10,000= in Multiples of Rs/ 500= only\)");

do

{

printf("\n\t\t\t>> \"Amount\" : ");

scanf("%d",&withdraw);

if(withdraw<0)

{puts("Please Enter a Valid Amount\a");continue;}

else if(withdraw>balance)

{printf("\a\n\t\t Entered Amount is more than Current Balance in Your Account.\n"); break;}

else if(withdraw%500!=0)

{printf("\a\n\t\tPlease enter an amount in Multiples of Rs/500= "); continue;}

else if (withdraw>10000)

{printf("\a\n\t\tPlease enter an Amount less than Rs\ 10,000="); continue;}

balance-=withdraw;

printf("\n\t\tPlease Take Your Amount\n");

balance\_enquiry();

printf("\n\tDo you want more transaction?\n\t 1. Yes \n\t 2. No \n\tchoice: ");

scanf("%d",&opt);

}while(opt!=2);

}

void cash\_deposit(void)

{

int deposit;

while(2)

{

puts("\n\t\tPlease Enter amout to deposit in multiples of Rs/500= ");

printf("\t\t\t\t\"Deposit Amount\" : ");

scanf("%d",&deposit);

if(deposit%500==0)

{

balance+=deposit;

balance\_enquiry();

break;

}

if(deposit<0)

{

puts("Please Enter a Valid Amount\a");

continue;

}

printf("\a\n\t\tYou have Deposited Amount which is not Multiple of Rs/500= ");

}

}

void pin\_change(void)

{

int old\_pin,pin1,pin2;

while(2)

{

printf("\n\t\tPlease enter the old PIN:");

scanf("%d",&old\_pin);

if(PIN==old\_pin)

break;

printf("\a\t\t Wrong PIN entered!\n");

}

do

{

printf("\n\t\tEnter the New PIN code twice:\n\t\tNEW PIN: ");

scanf("%d",&pin1);

if(pin1>9999||pin1<1000)

{puts("\aPlease enter a 4 Digit PIN"); continue; }

printf("\t\tRe-Enter NEW PIN: ");

scanf("%d",&pin2);

(pin1!=pin2)?printf("\a\n\t\tEntered PIN codes donot match"):PIN=pin1;

}while(pin1!=pin2);

}

void Exit()

{

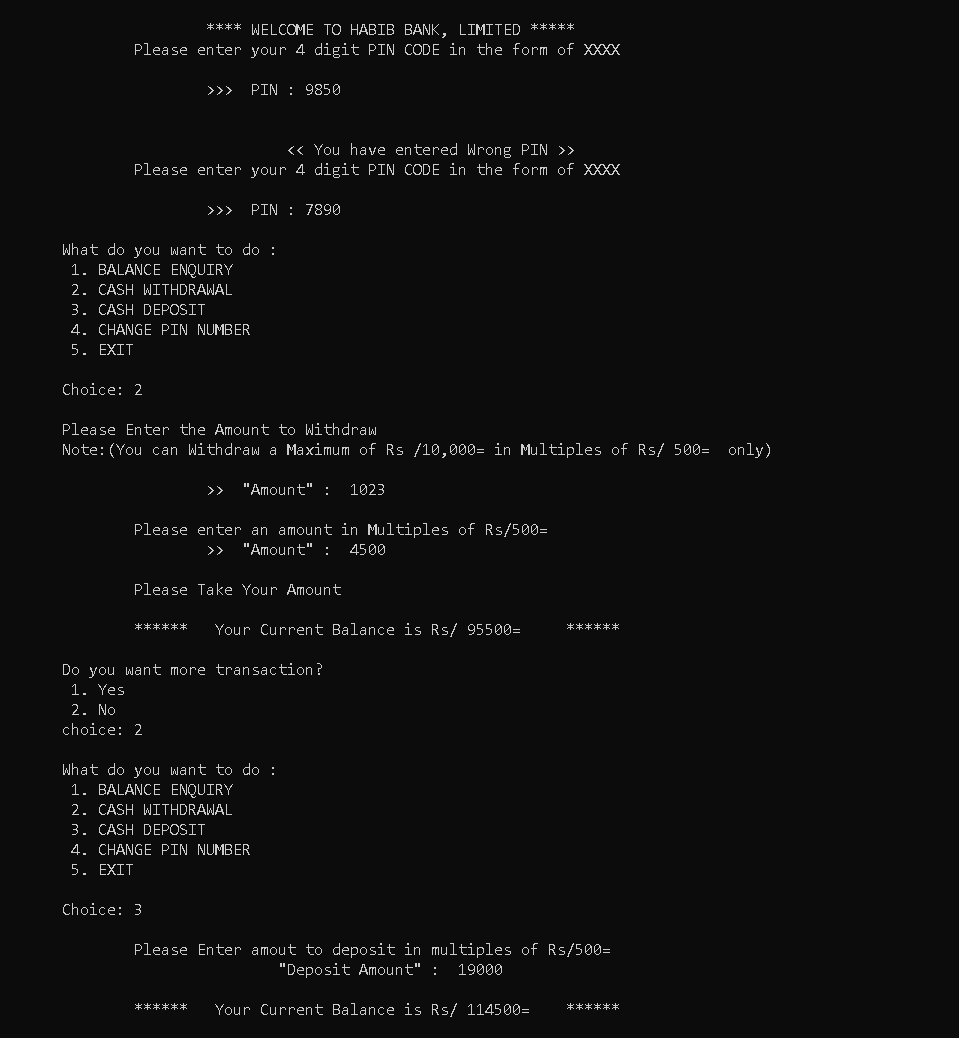
printf("\n\n\n\t\t\t \*\*\*\*\*\*\*\* <<< Thanks. Allah Hafiz >>> \*\*\*\*\*\*\*\* \n\n\t\t\t \_\_\_\_\_\_\_\_\_\_ Please Take Your Card \_\_\_\_\_\_\_\_\_\_\_\n");

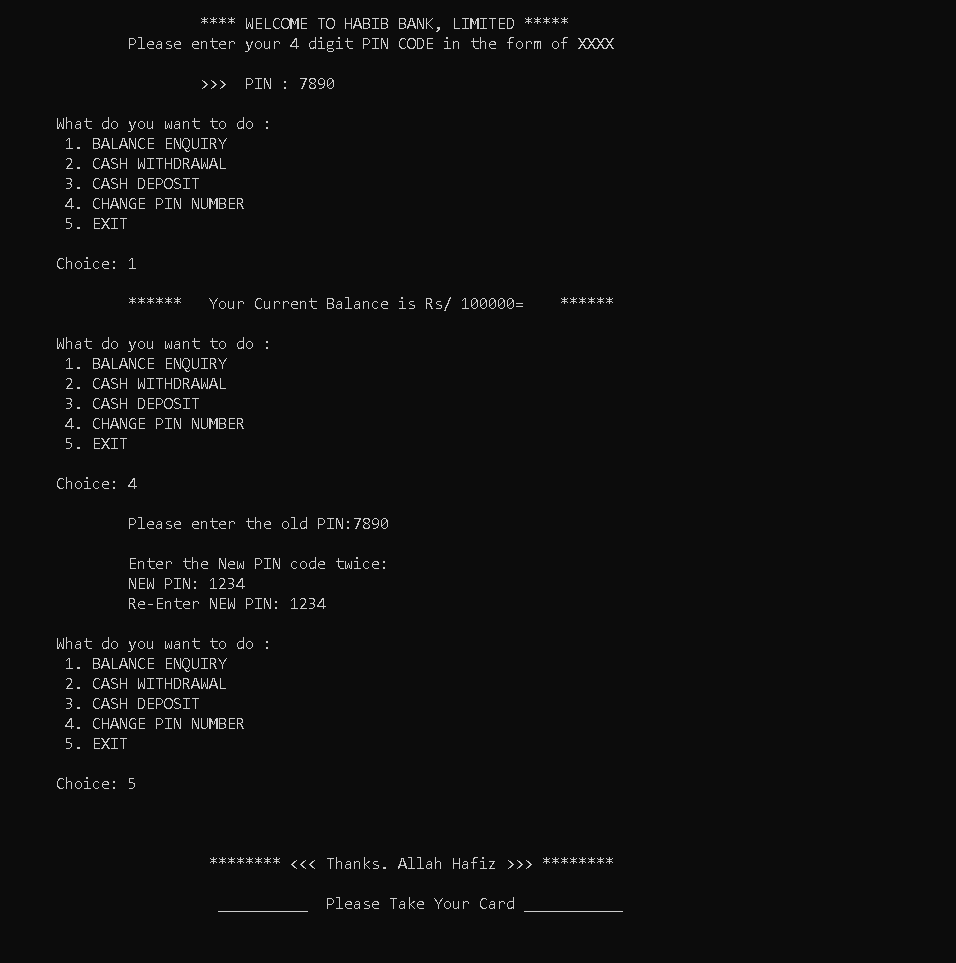
getche();

exit(0);

}

**OUTPUT**

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THE END