## IQRA NATIONAL UNIVERSITY

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## DEPARMENT: BS SOFTWERE ENGINEERING (SE)

## EXAMINATION: Final Assigment

## The answer is given

## below:

Q1: Using a do-while loop, write a program that will do banking transactions as per the figures below:


Figure 1
Based on Figure 1, the program shows the options available at the ATM machine. If the user withdraws amount more than the available balance, an error message
will be displayed and the program is terminated. Assume that the account has PKR 1000.00 starting balance.


Figure 2

Figure 2 show that the user is withdrawing some amount from the account. The program will display the balance left in the account. It will then ask the user whether he or she wants to proceed with another transaction.


Figure 3
Figure 3 show the balance inquiry option, which allows the user to check their balance in the account.


Figure 4

Figure 4 show when the user decides to exit the program. Note that to clear screen, you need to use system ("cls"); and include a header file stdlib.h
(-) $* * * * * * * * * * * * * * * * * * * * * * * * ~(-)$

## Answer: First of all the Code of Full Question:

```
#include <iostream>
#include <stdlib.h>
using namespace std;
void showOptions()
{
    cout<<"\t\t+--------------------------------><---------
    cout<<"\t\t: 1 - Withdrawal \t\t:"<<endl;
    cout<<"\t\t: 2- Balance Inquiry \t\t:"<<endl;
    cout<<"\t\t: 3-Exit \t\t\t:"<<endl;
    cout<<"\t\t+------------------------------->"<<endl<<endl;
    cout<<"Please Enter Your Choice : ";
}
int main()
{
    char yesnostatus;
    int opt;
    int amount = 1000;
    int withdraw_amount;
```

```
char exit;
cout << "Welcome to AWESOME BANK" << endl<<endl;
cout<<"What do you want to do?"<<endl<<endl;
    do
{
showOptions();
cin>>opt;
cout<<endl;
switch(opt)
{
case 1:
    cout<<"Please Enter Amount in PKR: ";
    cin>>withdraw_amount;
    if(amount<withdraw_amount)
    {
        cout<<"You have insufficient funds to do transaction \n
Thank You!"<<endl;
    }
    else
    {
    amount = amount-withdraw_amount;
    cout<<"Transaction Completed... "<<endl<<endl;
    }
```

break;

## case 2:

cout<<"The Balance is "<<amount<<endl<<endl; break;
case 3:
cout<<"Are you sure to Exit (Y/N) : ";
cin>>exit;
if(exit == 'Y' || exit == 'y')
\{
system("cls");
\}
break;
default:
cout<<"Incorrect options selected"<<endl<<endl;
\}
cout<<"DO YOU WANT TO EXIT TRANSACTION (Y/N): ";
cin>>yesnostatus;
cout<<endl;
\}while(yesnostatus == ' $Y$ ' || yesnostatus == 'y');

```
    FFile Edit Search View Project Execute Tools AStyle Window Help 
```



```
    |,
                                #include <stdlib,h>
                                using namespace std;
                                \
```



```
                                lol
                                cout<<"\ttt: 3 - Exit \t\t\t:"<<endl; <-....."<<<endl<<endl
                            cout<<"Please Enter Your Choice : ";
                                lor
                                c}\begin{array}{l}{\mathrm{ char yesnostatus;}}\\{\mathrm{ int opt;}}
                                int opt;
                                int amount = 1000;;
                                lol
                                cout<<"What do you want to do?"<<endl<<endl;
                                cout<<
                                showOptions();
                                cin>>opt;
                                cout<<endl,
    switch(opt
        case 1:
            cin>>withdraw_amount; 
                            if(amount<withdraw_amount)
                            cout<<"You have insufficient funds to do transaction \n Thank You!"<<endl
Line: 68 Col: \(1 \quad\) Sel: \(0 \quad\) Lines: 70 Length: 1627 Insert \(\quad\) Done parsing in 0.172 seconds
```



1. This is first step. If transaction is more than $\mathbf{1 0 0 0}$ it show you have insufficient found to do transaction thank you.
We lcome to AWESOFE BANK
What do you want to do?
: 1 - Withdrawal
: 2 - Balance Incuiry
: 3 - Exit
Please Enter Your Choice : 1
Please Enter Amount in PKR: 5000
You have insufficient funds to do transaction
Thank You?
DO YOU WANT TO EXIT TRANSACTION $\langle Y / N\rangle:$
2. Figure 2 show that the user is withdrawing some amount from the account. The program will display the balance left in the account.



## 3. Figure 3 show the balance inquiry option, which allows the user to check their balance in the account.

```
E) E:\University work\Assingments New\BankAssignment\main.exe
Welcome to AWESONE BANK
What do you want to do?
    - Nithdwawal
    :2 - Balance Inquiry :
    : 3 - Exit :
    +-------------------------------+
Please Enter Your Choice : 1
Please Enter Amount in PKR: 500
Transaction Completed..-
DO YOU WANT TO EXIT TRANSACTION <Y/N>: y
                                    --------+
                                    1 - Withdrawal :
                    :2 - Balance Inquiry :
                    : 3 - Exit 
                    +------------------------------------
Please Enter Your Choice : 2
The Balance is 500
DO YOU WANT TO EXIT TRANSACTION <Y/N>:
```


## 4. Figure 4 show when the user decides to exit the program.



## This is banking transactions Parogram::

## Thank You Sir

