



Iqra National University Peshawar Pakistan

Department of Computer Science

Spring Semester, Assignment, May-June 2020

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ASSIGNMENT

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

```
Welcome to AWESOME BANK
What do you want to do?
+-----+
| 1 - Withdrawal |
| 2 - Balance Inquiry |
| 3 - Exit |
+-----+

Please enter your choice: 1
Please enter the amount in PKR: 1500
You have insufficient funds do so.
Thank you!_
```

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.

```
Welcome to AWESOME BANK
What do you want to do?
+-----+
| 1 - Withdrawal |
| 2 - Balance Inquiry |
| 3 - Exit |
+-----+

Please enter your choice: 1
Please enter the amount in PKR 500
Thank you for the transaction. Your balance is 500
Do you want to exit transaction? (Y/N):
```

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.

```
Welcome to AWESOME BANK
What do you want to do?
+-----+
| 1 - Withdawal |
| 2 - Balance Inquiry |
| 3 - Exit |
+-----+
Please enter your choice: 2
The balance is 500
Do you want to exit transaction? <Y/N>: _
```

Figure 3

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

```
Welcome to AWESOME BANK
What do you want to do?
+-----+
| 1 - Withdawal |
| 2 - Balance Inquiry |
| 3 - Exit |
+-----+
Please enter your choice: 3
Are you sure want to exit? <Y/N>: y
Thank you!_
```

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`

CODE:

```
#include <iostream>
#include <stdlib.h>
using namespace std;
```

```
int main()
{
    unsigned long amount=1000, withdraw;
    int choice,k;
    char transaction='y';

    do
    {
        cout<<"Welcome to awesome bank"<<endl;
        cout<<"What do you want to do"<<endl;
        cout<<"1. Withdraw"<<endl;
        cout<<"2. Balance inquiry"<<endl;
        cout<<"3. Exit"<<endl;
        cout<<"Enter your choice"<<endl;
        cin>>choice;
        switch (choice)
        {
            cout<<"Enter your choice"<<endl;
        case 1:
            cout<<"Enter the amount to withdraw:";
            cin>>withdraw;
            if(withdraw >(amount-500))
                cout<<"Insufficient Balance"<<endl;
            else
                amount= amount-withdraw;
            cout<<"Thankyou for Transaction"<<endl;
```

```
    cout<<"Your current balance is "<<amount<<endl;
    break;
case 2:
    cout<<"Your balance is "<<amount<<endl;
    break;
case 3:
    cout<<"Thankyou!"<<endl;

    break;
default:
    cout<<"Invalid Choice";

}
cout<<"Do you want to exit transaction? (Y/N)"<<endl;
system("CLS");
cin>>transaction;
if( transaction =='n' || transaction =='N')
k=1;
else if (transaction =='y' || transaction =='Y')
k=0;
}
while(k);
return 0;
}
```

END