

## Iqra National University Peshawar Pakistan Department of Computer Science

SpringSemester,Assignment,May-June2020

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Subject:	Programming Fundamentals	Issue Date:	15/May/2020
Program:	BS (CS & SE)	Submission Date:	10/June/2020
Teacher Name:	Dr. Fazal-e-Malik	Marks :	20

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

### Solution:

#include<iostream>
#include<stdlib.h>
int main(){

int TotalBalance=1000, WithdrawAmount; int loop=0; int userinput;

do{

cout << " Welcome to AWESOME BANK "<<endl <<endl; cout << " What do you want to do? " <<endl; cout << " +-----+" <<endl; cout << " | 1 - Withdraw |" <<endl; cout << " | 2 - Balance Inquiry |" <<endl; cout << " | 3 - Exit |" <<endl; cout << " +-----+" <<endl;</pre>

```
cout << " Please enter your choice = " ;
cin >> userinput;
```

switch(userinput){

case 1:

cout<<" Please enter the amount in PKR " ; cin >> WithdrawAmount;

if (WithdrawAmount > TotalBalance){

```
cout<<" You have insufficient funds do so."<<endl;
cout<<"Thank You!";</pre>
```

```
else {
```

}

```
TotalBalance= TotalBalance-WithdrawAmount;
cout<<"Thank You for the Transaction";
cout<<"Your Remaining Balance = "<<TotalBalance;
```

```
char userin;
cout<<"Do you want to exit transaction? (Y/N)";
cin>> userin;
```

```
if(userin = 'Υ' || userin = 'γ'){
loop = 1;
}
```

```
system("CLS");
break;
```

#### case 2:

}

```
cout<<"Your remaining Balance = "<<TotalBalance;</pre>
```

```
char userin;
cout<<"Do you want to exit transaction? (Y/N)";
cin>> userin;
```

```
if(userin = 'Y' || userin = 'y'){
loop = 1;
}
```

```
system("CLS");
break;
```

#### case 3:

```
loop = 1;
```

char userinp; cout<<"Are you sure you want to Exit? (Y/N)"; cin>>userinp;

```
if(userinp = 'N' || userinp = 'n'){
loop = 0;
}
```

```
system("CLS");
break;
```

```
}
```

}while(loop < 1);</pre>

cout<<"Thank You!";</pre>

return 0;
getch();
}

Welcome to AWESOME BANK
What do you want to do?
1 - Withdawal 2 - Balance Inquiry 3 - Exit
Please enter your choice: 1
Please enter the amount in <sup>PKR</sup> : 1500 You have insufficent funds do so. Thank you!_
Inank 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 - Withdawal 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):	У			
Thank you!_				



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

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