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SpringSemester,Assignment,May-June2020

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 <<endl;

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!";
        _____ }

        _____ 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 = 'Y' || userin = 'y'){
        _____ loop = 1;
        _____ }
        _____ }

        _____ system("CLS");
        _____ break;

        _____ case 2:

```

```

    cout<<"Your remaining Balance = "<<TotalBalance;

    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);

cout<<"Thank You!";

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 PKR: 1500
You have insufficent 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 - 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): 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`

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