

Assignment : 7

Q1)

```
#include <iostream>
#include <string>
using namespace std;
class Bank {
public:
    string Name;
    long long int Accno;
    string Bank_name;
    string account_type;
    long long int balance;
    void getdata() {
        cout << "Enter The name of customer: ";
        cin >> Name;
        cout << "Enter Account Number: ";
        cin >> Accno;
        cout << "Enter Bank Name: ";
        cin >> Bank_name;
        cout << "Enter Account type: ";
        cin >> account_type;
        cout << "Enter Balance: ";
        cin >> balance;
    }
    void printdata() {
        cout << "Name of customer: " << Name << endl;
        cout << "Account Number: " << Accno << endl;
        cout << "Bank Name: " << Bank_name << endl;
        cout << "Account type: " << account_type << endl;
        cout << "Balance: " << balance << endl;
    }
    void credit() {
        long long int f;
        cout << "Enter the amount to be credited: ";
        cin >> f;
        balance = balance + f;
        cout << "The customer details after crediting the amount:" << endl;
        printdata();
    }
    void debit() {
        long long int f;
        cout << "Enter the amount to be debited: ";
        cin >> f;
        if (f <= balance) {
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        balance = balance - f;
        cout << "The customer details after debiting the amount:" << endl;
        printdata();
    } else {
        cout << "Insufficient balance." << endl;
    }
}
};

```

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void operation(Bank bank[], int n) {
    int j;
    cout << "Enter the appropriate number to perform operation" << endl;
    cout << "1. Credit Amount In customer account" << endl;
    cout << "2. Debit Amount from customer account" << endl;
    cout << "3. Exit" << endl;
    cin >> j;

    if (j == 1) {
        int k;
        cout << "Enter The Number of customer's account to which you want to credit amount: ";
        cin >> k;
        if (k >= 1 && k <= n) {
            bank[k - 1].credit();
        } else {
            cout << "Invalid account number." << endl;
        }

        int b;
        cout << "Do you want to perform further operation? 1 for yes and 2 for no: ";
        cin >> b;
        if (b == 1) {
            operation(bank, n);
        }
        } else if (j == 2) {
        int o;
        cout << "Enter The Number of customer's account from which you want to debit amount: ";
        cin >> o;
        if (o >= 1 && o <= n) {
            bank[o - 1].debit();
        } else {
            cout << "Invalid account number." << endl;
        }

        int b;

```

```

        cout << "Do you want to perform further operation? 1 for yes and 2 for no: ";
        cin >> b;
        if (b == 1) {
            operation(bank, n);
        }
        } else if (j == 3) {
        } else {
            cout << "Invalid operation choice." << endl;
            operation(bank, n);
        }
    }
}

```

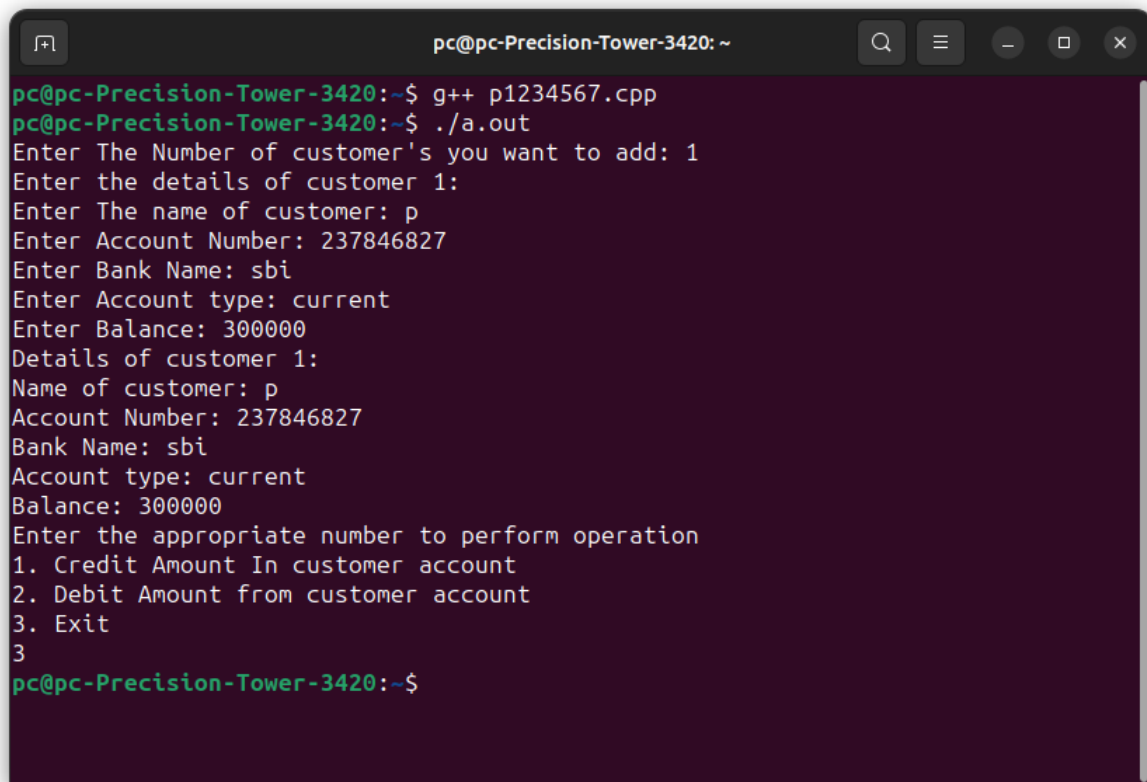
```

int main() {
    int n;
    cout << "Enter The Number of customer's you want to add: ";
    cin >> n;
    Bank bank[n];

    for (int i = 0; i < n; i++) {
        cout << "Enter the details of customer " << i + 1 << ":" << endl;
        bank[i].getdata();
    }
    for (int i = 0; i < n; i++) {
        cout << "Details of customer " << i + 1 << ":" << endl;
        bank[i].printdata();
    }
    operation(bank, n);
    return 0;
}

```

Output :

A terminal window titled 'pc@pc-Precision-Tower-3420: ~' with standard window controls. The terminal shows the compilation and execution of a C++ program. The user enters '1' for the number of customers, then provides details for one customer: name 'p', account number '237846827', bank name 'sbi', and account type 'current' with a balance of '300000'. The program then displays these details and a menu of operations. The user enters '3' to exit.

```
pc@pc-Precision-Tower-3420:~$ g++ p1234567.cpp
pc@pc-Precision-Tower-3420:~$ ./a.out
Enter The Number of customer's you want to add: 1
Enter the details of customer 1:
Enter The name of customer: p
Enter Account Number: 237846827
Enter Bank Name: sbi
Enter Account type: current
Enter Balance: 300000
Details of customer 1:
Name of customer: p
Account Number: 237846827
Bank Name: sbi
Account type: current
Balance: 300000
Enter the appropriate number to perform operation
1. Credit Amount In customer account
2. Debit Amount from customer account
3. Exit
3
pc@pc-Precision-Tower-3420:~$
```