Requirement Tag	Requirement Description	Comments
BNK/01	The class should have following data members : Customer Name (char *), Account Number, Type of Account (Savings/Current etc), Account Balance.	
BNK/02	The class should allow basic operations like creating a new account, deposit an amount, withdraw money after checking the balance, display account details.	Hint: 1.Use overloaded constructors to create and initialize object members. 2. Access the members using this pointer 3. Perform validation and ensure sufficient balance before withdrawal. Else display error message "Insufficient balance"
BNK/03	Add a non member function updateName() to receive a reference to an account object and a new name string. This function should update name and return the reference object.	
BNK/04	Add a default constructor to create account object with data members as below: Customer Name:"defaultName" Account Number:"123456789012" Type of Account:Savings Account Balance :0	
BNK/05	a. Add a method BulkCreate() to create n number of objects with name initialized using given prefix and other attributes with default value as of ref object. Allocate dynamic memory for customer name. Let each created object be stored in a global array. int BukCreate(const Account &ref, int count, char *prefix); count - number of objects to be created prefix - name prefix string eg. if n = 3, prefix="ALT_NAME_" then create 3 objects with name string as below and other attributes with default value as of ref object. ALT_NAME_1 ALT_NAME_2 ALT_NAME_3 b. define all constructors as explicit	Should define and use a copy constructor
BNK/06	Add destructor to deallocate memory allocated for account object	

Answer:

```
#include<iostream>
#include<string>
#include<cstring>

using namespace std;

class Bank
{
    private:
        string customername;
        long int accountnumber;
        string typeofaccount;
        float balance;

    public:
        Bank(){}

        void newaccount()
        {
            cout<<"welcome to account:"<<endl;
            cout<<"customer name:"<<endl;
            cin>>customername;
            cout<<"account number:"<<endl;
             cin>>accountnumber;
            cout<<"type of acccount:"<<endl;
            cin>>typeofaccount;
```

```
        }

        Bank(string cn,int a,string ta,float b)
        {
            customername=cn;
            accountnumber=a;
            typeofaccount=ta;
            balance=b;
        }

        ~Bank(){}



        void deposit()
        {
            int x;
            cout<<"enter the amount  deposit"<<endl;
            cin>>x;
        }
void withdraw()
        {
            int b,y;
            int a=1818;
            cout<<"enter the amount  withdraw"<<endl;
            cin>>y;
            cout<<"please verify your pin";
            cin>>b;
```

```
            if(a==b)
            {
                cout<<"withdraw successfull";



            }
            else
            {
                cout<<"ERROR ";
            }

        }

        void display()
        {
            cout<<"\ndetails of customer:"<<endl;

        cout<<"name:"<<customername<<endl;
             cout<<"accountnumber"<<accountnumber<<endl;
             cout<<"type of account"<<typeofaccount<<endl;
             cout<<"amount left"<<balance<<endl;
        }
};


 int main()
{
    Bank B;
```

```
    Bank B1("ibbani P",123456,"saving account",89898.24);


    B.newaccount();
    B1.deposit();
    B1.withdraw();
    B1.display();
   return 0;
}
```

Output:

Vi bank1.cpp

G++ bank1.cpp -o main

Welcome to account:

Customer name:

Ibbani P

Account number:

4567

Type of account:

Saving

Enter the amount deposit:

4500

Enter the amount withdraw:

500

Please verify your pin 4545

Withdraw successful

Details of customer:

Name:Ibbani P

Account number123456