

Q1 Create 3 Classes

1) Account

DataMembers: Name, address, NameOfBank, BranchName, IFSCCode, BranchAddress

MemberFunctions: ParametrisedConstructor, getName(), getAddress(), getBankDetails(), setBankDetails()

2) CheckingAccount

DataMembers: AccountNumber, Balance

MemberFunctions: ParametrisedConstructor, getAccountDetails(), getBalance(), setBalance(), withdraw(), deposit().

3) SavingAccount

DataMembers: AccountNumber, Balance, transactionLimit

MemberFunctions: ParametrisedConstructor, getAccountDetails(), getBalance(), setBalance(), withdraw(), deposit(), getLimit(), setLimit().

CheckingAccount, SavingAccount, CurrentAccount will inherit the properties of Account. There should be at least one CheckingAccount, SavingAccount, CurrentAccount associated with an account. Create Demo class which will call the above mentioned functions.

Q2 Write a Java program to develop a client server chat application. Server and client should be on different machines.

Q3 Given a square matrix **mat[][]** and a number **k**. The task is to shift the first **k** elements of each row to the right of the matrix.