

Q1.

The Details for an account are stored using a class. This maintains all the 6 details mentioned.

We pre-populate by creating a list of Accounts and then giving values.

Similar Transaction class is created to keep an account of the past transactions.

Then we create an interface containing the name of all methods.

I implemented the interface methods in the Server class.

The Client can request for any methods through CLI.

The commands are

--> deposit Amount

--> withdraw Amount

--> balance

--> transaction_details

--> transaction_details start_date end_date

For simplicity I assume account number is some fixed quantity instead of asking for it.

In order to run it the following command should be used

1) `rmic Server`

2) `rmiregistry 5000`

3) `java Server`

4) `java Client`

Q2.)

First using the DH key algorithm a secret key is generated in both client and server.

Just as in the first Question the design of the basic is the same, so are the commands to run.

In order to run it the following command should be used

1) `rmic Server`

2) `rmiregistry 5000`

3) `java Server`

4) `java Client`

The commands to run on it are

-> Primality Number

-> Fibonacci Number

-> Palindrome Text/Number

-> StringCaseConverter Text/Number