--- Fixed Deposit account opening process ----

Customer walks in to a bank. He carries 1 Lakh cash with him. He wants to deposit the cash in a Fixed deposit account.

The banking software should allow opening of Fixed deposit ONLY if he has already a Savings bank account in the bank.

If not, he should first create a Savings bank account.

For opening a Savings bank account, the customer has to furnish his name, aadhar id and valid address proof.

If either id or address proof is not submitted, the software should not create a savings bank account and should print an error "INVALID CUSTOMER".

If customer has a valid id and address proof, the software should create a UNIQUE 16 digit account number for that customer.

Fixed deposit account should be created using from Savings bank account (use the concept of inheritance).

Fixed deposit account number should be different from Savings bank account number.

The FD account number should also be unique for each customer.

Provide methods to customer for crediting cash to his SB account, or FD account, debiting cash from them, querying balance of them.

If a customer is not using the account for six months, mark the account as inactive.

Repeat the above process for 10 customers.

Provide a report to bank with all customer details, i.e name,id proof submitted, address proof submitted, current status of user, sb account number, fd account number, sb balance, fd balance.