Digital Wallet

You are supposed to make a digital wallet system that allows people to transfer money among their wallets. The wallet system uses its own currency called FkRupee (F₹). The smallest amount that the users can transfer is **F₹ 0.0001**. The description of the wallet operations follows

* The command **CreateWallet <accountHolder1> <amount>** creates a new wallet with a balance of F₹ <amount> in the name of <accountHolder1>.
* The command **TransferMoney <accountHolder1> <accountHolder2> <amount>** would decrease F₹ <amount> from accountHolder1’s account and add the same amount in accountHolder2’s account.
* The command **Statement <accountHolder1>** should display the account statement for accountHolder1’s  account. The account statement should contain all the transactions made in that account.
* The command **Overview** should display the current balance of all the accounts.

Your wallet system also provides some offers to the customers.

**Offer 1:** When customer A transfers money to customer B and both the account holders have the same balance after the transaction then both the customers get F₹ 10 as a reward.

**Offer 2:** Whenever the command **Offer2** is fired 3 customers with the highest number of transactions will get F₹ 10, F₹ 5, and F₹ 2 as rewards. If there is a tie (customers having the same number of transactions) then the customer having higher account balance should be given preference. If there is still a tie then the customer whose account was created first should be given preference. Consider **Offer2** as a command from input.

Note

1. No account can contain a balance less than 0.

# **Sample**

**(Bold is user input command)**

**CreateWallet Sadhana 100**

**CreateWallet Sameer 95.7**

**CreateWallet Pravallika 104**

**CreateWallet Charan 200**

**CreateWallet Anchal 500**

**Overview**

Sadhana 100

Sameer 95.7

Pravallika 104

Charan 200

Anchal 500

**TransferMoney Charan Anchal 30**

**TransferMoney Pravallika Sadhana 2**

**TransferMoney Charan Sameer 5**

**Overview**

Sadhana 112

Sameer 100.7

Pravallika 112

Charan 165

Anchal 530

**Statement Sadhana**

Pravallika credit 2

Offer1 credit 10

**Statement Charan**

Anchal debit 30

Sameer debit 5

**Offer2**

**Overview**

Sadhana 114

Sameer 100.7

Pravallika 112

Charan 175

Anchal 535

# **Notes**

1. Code should be demo-able (***MOST IMPORTANT***)
2. Code should be modular
3. Input can be taken from *command line* or *file* or by *hard coding a* ***single*** *string in your code*
4. You are expected to find and handle all corner cases and data validations
5. All data should be stored in memory. Do not use files/databases etc for storage.