

CSPP2 Remedial Exam3

Duration: 3hrs

Wallet

Write a program to implement the following operations for Wallet class and User class using object oriented concepts.

Wallet Class

Data Attributes of the wallet class should be: **name** and **amount**.

Behaviors of the Wallet class should be as follows.

1. **credit** :

Add amount to the wallet.

2. **debit**:

Debit amount from the wallet.

3. **availBalance**:

Return the current amount from the wallet.

4. **transfer**:

Transfer the amount from one wallet to other wallet.

Note: Every wallet is identified by their name.

- Raise an Exception if the Wallet amount is less than the amount to be debited with the message “**Insufficient funds**”

(or)

- Check the Wallet amount before transferring the amount to other's wallet, if less raise an exception with the message “**Insufficient funds**”
- If the given amount is less than zero, raise an exception with the message “**Negative amount**”.

User Class

Data Attributes of the user class should be name.

Behaviour of the user class:

1. **add**:

Adding a wallet. Each user can have single or multiple wallets. Initialize each wallet with a default amount 1000.0.

Input format:

- The first line of the input contains the number of wallets .
- The consecutive lines of the input contains the names of the wallets.
- The next line of the input contains the operation followed by the details.

For example:

Credit

A 2000

Amount 2000 has to be added to Wallet A.

Output Format:

- The operations are performed on the wallet or else raise the exceptions.
- For only balance operation you need to print the current wallet's balance.

Sample Input:

rehana

3

A

B

C

credit

A 2000

balance

A

credit

B 25000

balance

B

transfer

B A 20000

balance

A

balance

B

debit

A 2000

balance

A

quit

Sample Output:

3000.0

26000.0

23000.0

6000.0

21000.0

Thank you