TEST TASK PHP DEVELOPERS

You need to implement OOP structure (basic classes and methods) to represent customer's e-wallet functionality.

- The system will consist of the customers with their own unique customer IDs and their e-wallet.
- Each e-wallet has at least 2 accounts - 1 with virtual currency (credits , 1 credit =1 USD) and 1 with USD account.
- The user can set any of account except virtual one as a default account.
- The user can freeze any of account except the virtual one.
- The user can add more accounts in any of the currency.
- It should be possible to list all of the accounts of the user and get a balance of any account.
- The user can top-up any account with any amount which is not higher than customer's top up limit (per day).
- The user can transfer amounts from one account to another.
- The user can withdraw money from any account not exceeding customer's withdrawal limit (per day).
- It is not possible to do money withdrawal from virtual currency account

- You need to implement the business logic of each method described above.
- You don't need to implement data storage, except the log file.

- Each action of the customer should be logged into the file, each log record should mention the time and name of the action executed.

- Your code should be clean, independent, easy to understand and well-documented. It will be run from command-line. Based on it, the person verifying your task will write some sample scenario and verify the log file.

Example of scenario:

1. Create new customer with id test_customer_12
2. Get list of accounts of the user
3. Set a daily top-up limit to 100 USD.
3. Top up USD account with 113 USD
4. Top up USD account with 57 USD
5. Add new EUR account
6. Transfer 40 USD to EUR account
7. Get a balance of the EUR account.
8. Freeze EUR account.
etc