

Hi Future Monk!

We would like you to work on a small test so we have a general idea of your skillset.

What we would like you to build

Build a Python script which runs billing based on the input files attached.

We've got an issue here, we've started providing services for a handful of clients but have not yet built the tools to calculate the final bill. We need your help figuring out a simple pythonic solution for this ! This script will have to leverage 3 different input csv files and produce a single csv file as its final output:

The first of the inputs, *clients.csv*, contains client information, a basic numerical ID(Client ID), a name(Client Name), the currency name the final bill has to be issued on(Bill Currency), and the markup we keep as revenue(Service Rate)(based on bill currency).

The second input, *platform_spend.csv*, is the report from the marketing platform we run ads for our clients on, first we have the client id and client name (which matches with *clients.csv*), campaign id and campaign name(we usually run multiple campaigns per client), the advertising cost for the campaign, and the currency spent.

And third, *fx_rates.csv*, this is a double entry table containing the different exchange rates we will need, each row is the origin currency for the rate and the column is the destination currency of the rate, for example on row CHA, under column TOK, we have the value 0.25 which means 1 CHA equals 0.25 TOK.

As for the output we just need client id, client name, bill currency and total amount for the bill, one row per client will suffice. Client id, name and bill currency are the ones found on *clients.csv*. Total amount has to be calculated as the sum of the platform spend plus the service rate markup, for example a client with a total spend of 300CHA and a rate of 0.01CHA would be billed 303CHA. An important detail to keep in mind is client's can spend on multiple currencies different from the currency we have to bill them on, so a client can spend on CHA and TAZ but be billed on TOK.

Feel free to add more features to show off your skills!

What we want to receive

- A public git repository with the relevant files for the project
- Instructions on how to run it locally
- Additional thoughts/comments if any

What we will be looking at

- Clean code
- Tests
- General usage/best practices