Activities: Classes 3

(To be continued)

In this class, we are going to model accounts that customers have with a provider.

We first use the already created Address, consisting of a street, a street number, a postal code, a city, and a country code.

We then model a class customer, consisting of name (such as “John Smith”, “Marquette University”, or “Acme Constructions Limited”), and an address.

Finally, we have a class account. Such a class has attributes balance (initially zero), which is the amount deposited, so the balance is usually negative, minimum balance, and a customer.

Besides the dunders __init__, __str__, and __repr__, you need to implement the following methods / functions:

- Charging a customer unless the account would be overdrawn. The function should return a Boolean value, True or False, accordingly.
- Crediting a customer account.
- Transferring credit or debt between two customers, provided that the minimum balance is not overdrawn.

The functions could be methods of the customer class, but we will make them stand-alone functions. Test all methods and functions.

Test by generating at least two different customers and model payments and balance transfers between customers.