BKIT – LESSON12 – BAI TAP

Question: Build an application 'trader executing transactions' for your manager to manage all system activities and answer following queries:

- 1. Find all transactions in the year 2011 and sort them by value (small to high).
- 2. Find all transactions have value greater than 300 and sort them by trader's city
- **3.** What are all the unique cities where the traders work?
- **4.** Find all traders from Cambridge and sort them by name desc.
- **5.** Return a string of all traders' names sorted alphabetically.
- **6.** Are any traders based in Milan?
- 7. Count the number of traders in Milan.
- **8.** Print all transactions' values from the traders living in Cambridge.
- **9.** What's the highest value of all the transactions?
- **10.** Find the transaction with the smallest value.

Trader: name, city

Transaction: trader, year, value

Here's the domain you'll be working with, a list of Traders and Transactions

```
Trader raoul = new Trader("Raoul", "Cambridge");

Trader mario = new Trader("Mario", "Milan");

Trader alan = new Trader("Alan", "Cambridge");

Trader brian = new Trader("Brian", "Cambridge");

List<Transaction> transactions = Arrays.asList(
    new Transaction(brian, 2011, 300),
    new Transaction(raoul, 2012, 1000),
    new Transaction(raoul, 2011, 400),
    new Transaction(mario, 2012, 710),
    new Transaction(mario, 2012, 700),
    new Transaction(alan, 2012, 950)

);
```