

Day 11: The abstract factory method

Take the factory method, and instead of creating new classes for particular implementations (we had a `PgSqlClient`) and then creating instances of that, we abstract one level. Now we can have instances corresponding to particular implementations, rather than classes! So like this:

```
1 class DatabaseClient(connectorFactory: DatabaseConnectorFactory) {
2     def executeQuery(query: String): Unit = {
3         val connection = connectorFactory.connect()
4         connection.executeQuery(query)
5     }
6 }
7
8 val clientMySQL: DatabaseClient = new DatabaseClient(new MySQLFactory)
9 val clientPgSql: DatabaseClient = new DatabaseClient(new PgSqlFactory)
```

This is:

- Very easy to inject mocks
- Easy to add new instances and refactor
- Hides details of instantiation, much like the normal factory method