1. A bank has four kinds of customers. A regular customer has a social security number, while a corporate customer has an employer ID number. Corporate customers are further separated into "Small Business" and "Large Business" types. These have different account managers. Draw the inheritance diagram relating the kinds of customers.

   ![Inheritance Diagram]

   Note: attributes are not included in inheritance diagram.

2. What data and attributes could be shared among all the different kinds of customers?

   Name, address, phone, email, etc.
3. The kinds of accounts at a bank include checking, savings, and certificate accounts. There are also equity, home improvement, and small business loans that are thought of as accounts as well. Finally, a credit card is also a kind of account. Draw the inheritance diagram relating the kinds of accounts.

```
account
  /   
deposit loan credit
  
  equity home improv. small business
```

4. What distinguishes one kind of account from another in terms of attributes?

- deposit accounts have positive balance
- loan accounts have negative balance
- equity, home improvement have personal collateral
- small business has business collateral...

5. (Advanced) Draw a *Jackson* data diagram for the data that describes a regular customer. This is a diagram in which the entities are data elements and left-to-right sequencing describes where they are in a data structure.

```
customer
  /
name address phone email account
  /
  /
  /
  /
  /
deposit loan credit
```

Structure is similar to inheritance diagram.