**Bank Application**

Scenario : You are a back-end developer and need to create an application to handle new customer bank requests.

**Your application should do the following :-**

* Read a .csv file of names, social security numbers, account type and initial deposit
* Use a proper data structure to hold all these accounts
* Both savings and checking accounts share the following properties :

deposit()

withdraw()

transfer()

showinfo()

11-Digit account number (generated with the following process : 1 or 2 depending on savings or checking, last two digits of SSN, unique 5-digit number and random 3-digit number).

* Savings account holders are given a safety deposit box, identified by a 3-digit number and accessed with a 4-digit number.
* Checking account holders are assigned a debit card with a 12-digit number and 4-digit PIN
* Both accounts will use an interface that determines the base interest rate.

-> Savings account will use 0.25 points less than the base rate

-> checking account will use 15% of the base rate

* The showInfo method should reveal account information as well as information specific to the checking account or savings account.

**Learning objectives :-**

* Learn to develop a robust application architecture
* Use when to use abstract classes and abstract methods
* Use an interface API to receive information from a developer’s application
* Explore constructors deeper and use the super() keyword
* Explore access modifiers and when to use public, private, protected
* Read data from a file and store in an appropriate data structure
* Generate random numbers and work with string API