# CSCI-C201 Project: Smart Banking

**Introduction:** In this semester, we are going to create a banking software program that can allow users to perform basic banking operations and analyze accounts and transactions. This project will have five phases (Project 1 to Project 5). You are allowed to work in a team of 2 or 3 members.

**Project 2 (Phase 2): File Access and Account Management**

In this project (phase), you are going to complete the coding that enables users to manage customer accounts.

1. Download the partially written source code (a zip file), unzip it, and copy the entire “**src**” folder to your IDE project folder and replace your existing “**src**” folder.
2. Your “src” folder contains four java source code files: myProject.java, bank.java, bankAnalysis.java, and bankManagement.java.
   * myProject.java is written for you. DO NOT make changes to it.
   * bankAnalysis.java is written for you. DO NOT make changes to it.
   * bank.java is partially written. Complete one method: accountManagement(). The instructions written as comments can be found inside the code.
   * bankManagement.java is partially written. Complete three methods: listAccounts(), addAccount(), and deleteAccount(). The instructions written as comments can be found inside the code.
3. To add an account, the following data should be stored corresponding to each account:

* Account number: an integer number (must be **unique** for every account)
* First name: a word corresponding to a customer’s first name.
* Last name: a word corresponding to a customer’s last name.
* Balance: 0 (initial balance)

1. Your program should be coded in a way such that all previous changes are written to the file before any new operations are performed.
2. Testing: Your program must be able to handle the following abnormal situations:

* For add an account option, if an existing account number is entered, the program should respond with a message and no new account should be created.
* For delete an account option, if the account number could not be found, a message should be displayed and no account should be deleted.

1. Download the reference executable (Project2.jar) and run it with command:

java -jar Project2.jar

1. Use the reference executable to understand the requirement and help you test your program.
2. Your program must behave exactly as the reference executable.
3. If anything is not clear, please ask the instructor.

**Submission**: Only upload two files: bank.java and bankManagement.java (Please specify clearly your team members in the source code)