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Final Project

Github URL: <https://github.com/Cs2025/FinalProject>

First, I created the Bank class which extends Employee and contains a field instance of

BankAccount. It uses withdraw and deposit methods to change the balance of employee’s accounts, and included is a Test class that tests all 9 employee examples.

**Git Instructions**

Open Git bash in a folder where you want to create the FinalProject directory

1. Clone the repository by typing into console:

git clone https://github.com/Cs2025/FinalProject

1. Git will create a folder “FinalProject” in the current directory, containing the files in the project and a. git folder holding the repository

**Final Project Summary:**

The Test.java file contains the Test class which has the main method that runs the 9 examples from class demonstrating the Bank Account classes and subsequent methods.

The Bank class inherits from Employee which inherits from Person, the super class. Bank class contains a field of the Reference Type BankAccount which it uses to perform the withdrawals and deposits and viewing the employees’ balances. The Bank class inherits all other fields from Employee class.

**Bank Class**

The **Bank** class inherits (extends) the Employee class, which extends the Person class. The person class is the super, or parent class for the Final Project.

Bank has a bankAccount field which holds the balance of employees and allows us to use deposit and withdraw methods to modify said balance.

The **constructors** used consist of our default constructor Bank(), a constructor containing employeeNumber, accountNumber, firstName, lastName, emailAddress, and initialCapital, as well as a constructor without initialCapital.

The **methods** used include getBankAccount(), which retrieves an employee’s bank account information. The setBankAccount method will set an employee’s bank account with the desired info. The deposit() and withdraw() methods are self-explanatory, and used for modifying employee’s balances as needed.

**Employee Class**

The **Employee** class extends the Person class.

Employee has several variables, all pertaining to Employee information. employeeNo, accountNo, emailAddress, employer, and initialCapital are all used to create Employees. Each field has getters and setters to access the information.

Employee also uses multiple **constructors**, including Employee(), the default constructor for this class, as well as Employee() with the fields employeeNumber, accountNumber, firstName, lastName, emailAddress, and initialCapital. A second Employee() constructor contains the same fields, just without initialCapital.

Employee **methods** include getters and setters for all fields, as well as an equals() method.

**Person Class**

The **Person** class is the parent class of the entire project, thus it does not extend, or inherit, any other class.

Person has getters and setters for firstName and lastName.

Person class uses a default **constructor**, Person(), containing firstName and lastName. This constructor is used by subsequent classes and is built upon.

As stated earlier, the **methods** used by Person are simply getFirstName(), setFirstName(), getLastName() and setLastName().