Pseudocode for EmployeeSystem\_Lyons

1. Greet users and start up
   1. Initialize keyboard scanner and data structure
2. Attempt to open file and read information to create database
   1. Check default location
   2. Check user specified location
   3. Query to start with empty database or exit program if not found
3. Main menu (loop until user selects exit)
   1. Add employee to database (must handle untitled and with title)
      1. Read info
      2. Create locally (if titled create as EmployeeWithTitle)
      3. Add to database
      4. Show all
   2. Delete employee from database
      1. Read ID to delete
      2. Delete from database
      3. Show all
   3. Update information of employee
      1. Read ID to update
      2. Fetch data and create local copy
      3. Read information to change
      4. Make changes locally
      5. Update database
      6. Show all
   4. Search for employee by ID
      1. Read ID to search
      2. Fetch from database
      3. Display info
   5. List all employees with the same last name
      1. Read last name to search
      2. Fetch all matches from database
      3. Display info
   6. List all employees with the same title
      1. Read title to search
      2. Fetch all matches from database
      3. Display info
   7. List all employees from the same department
      1. Read department to search
      2. Fetch all matches from database
      3. Display info
   8. Exit Program
      1. End menu loop
4. Write database to file
   1. Collect information of all employees in the correct format
   2. Overwrite storage file with current copy of database
   3. Save and close file
5. Thank users and terminate
   1. Close keyboard scanner