**ECB class**

fields

Arraylist phonebook - holds phonebook entries

Arraylist results - holds results output from instructions

methods

main method - starts the program.

buildPhonebook - opens the input file and sends scanner object to interpreter.

runInstructions - opens instruction file and sends scanner object to interpreter.

writeResults - generates results output file.

writePhonebook - generates phonebook output file.

**SortPhonebook class**

methods

sortPhonebook - returns a phonebook sorted by name and birthday

**Interpreter class**

fields

phonebookentry - hold an array of information for a phonebook record of phonebook entry datatype.

methods

interpret - Scans the input for field names or commands and sends argument to switchOn

switchOn - Calls the corresponding class method for the given argument (either an input field or a command).

**Phonebookentry class**

This class constructs an array of information for each phonebook entry. The phonebookentry object is then added to thephonebook which is an arraylist of phonebookentry type.

methods

addField - adds information to the phonebookentry

**Name class**

methods

createName - Checks the name is of valid format and adds it to the phonebook entry.

toString - returns the arraylist of names as a string.

checkName - pattern matching to check for valid input.

The same format as name applies for the following classes (excepting the input is verified with alternative expressions):

**Address class**

**Phone class**

**Birthday class**

**Email class**