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TC4002 - Analysis, Design and Construction of Software Systems

Professor:

Gerardo Padilla Zarate

L2.2 - Development Exercises

Student:

Juan Francisco Corral Stenner

A00354823

- 10) Create a class called myPowerList, implement methods for
- Adding items
- Removing the n-th item

Before adding: [1, 3, 5, 4]

After adding: [1, 3, 5, 4, 10]

Before removing: [1, 3, 5, 4, 10]

After removing: [1, 3, 5, 10]

Process finished with exit code 0

11) Add a method in myPowerList to return the sorted list [Do not use list.sort, implement the algorithm iterating in the list]

Before sorting: [1, 7, 2, 27, 88, 3, 5, 4]
After sorting: [1, 2, 3, 4, 5, 7, 27, 88]

Process finished with exit code 0

- 12) Add a method in myPowerList to merge another list with the current list
- Lmerge (merge the list as prefix)
- Rmerge (merge the list as suffix)

```
Original list: [1, 7, 2, 27, 88, 3, 5, 4]

Merging from the left: [7, 8, 9, 10, 1, 7, 2, 27, 88, 3, 5, 4]

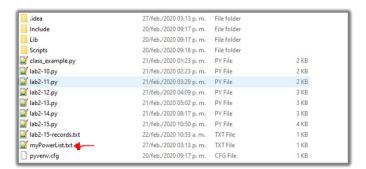
Merging from the right: [7, 8, 9, 10, 1, 7, 2, 27, 88, 3, 5, 4, 7, 8, 9, 10]

Process finished with exit code 0
```

- 13) Add a method in myPowerList to save the current list as a text file
- saveToTextFile(filename)

myPowerList.txt successfully created

Process finished with exit code 0



14) Add a method in myPowerList to read values for a List from a Text file

- readFromTextFile(filename)

```
myPowerList.txt successfully created
The content of myPowerList.txt is:
1
7
2
27
88
3
5
4
Process finished with exit code 0
```

15) Create a class to manage a directory of users containing data

- Name
- Address
- Phone
- Email

The class must be enable:

- 1. Creation of new record
- 2. Save all records in a file
- 3. Load records from a file
- 4. Search and get data from a given record

```
====== Content of the Directory ========
                      Address: Paseos del Sol
Name: Juan Stenner
                                                    Phone: 33-33-33-33
                                                                              email: juan.stenner@oracle.com
                      Address: Ciudad del Sol
Name: Francisco Corral
                                                    Phone: 11-11-11-11
                                                                              email: francisco.corral@hotmail.com
Name: Guido Python
                       Address: Guido Address
                                                    Phone: 22-22-22-22
                                                                              email: guido.python@yahoo.com
====== Adding a new record =========
Name: Juan Stenner
                       Address: Paseos del Sol
                                                    Phone: 33-33-33-33
                                                                              email: juan.stenner@oracle.com
                       Address: Ciudad del Sol
Name: Francisco Corral
                                                    Phone: 11-11-11-11
                                                                              email: francisco.corral@hotmail.com
                     Address: Guido Address
Name: Guido Python
                                                    Phone: 22-22-22-22
                                                                              email: guido.python@yahoo.com
                        Address: Zapopan
Name: Esther Rivas
                                                    Phone: 44-44-44-44
                                                                              email: esther.rivas@hotmail.com
====== Content of lab2-15-records.txt =======
Name: Juan Stenner
                      Address: Paseos del Sol
                                                    Phone: 33-33-33-33
                                                                              email: juan.stenner@oracle.com
Name: Francisco Corral
                      Address: Ciudad del Sol
                                                    Phone: 11-11-11-11
                                                                              email: francisco.corral@hotmail.com
Name: Guido Python
                      Address: Guido Address
                                                    Phone: 22-22-22-22
                                                                              email: guido.python@yahoo.com
Name: Esther Rivas
                       Address: Zapopan
                                                    Phone: 44-44-44-44
                                                                              email: esther.rivas@hotmail.com
==== Searching and printing a random record =====
Name: Juan Stenner
                       Address: Paseos del Sol
                                                    Phone: 33-33-33-33
                                                                              email: juan.stenner@oracle.com
Process finished with exit code 0
```