Write a simple program, in your language of study that completes the following tasks:

o Uses File-IO on startup to open the dataset, read in the first 10 records of data, and store them

into a simple data structure (array or a list containing Strings or record objects), use exception

handling in case the file is missing or not available.

o The first one or two records may have column names, these can be shown on screen but

should not be placed into the simple data structure. Note: Column names may be provided in

French as well as English, use only the English names in your program.

o Displays your full name on screen so it remains visible at all times, or after each user

interaction.

o Provide the user the options and functionality to:

§ Reload the data from the dataset, replacing the in-memory data

§ Display all the records held in the simple data structure (keep it to 10 for testing)

§ Create a new record and store it in the simple data structure

§ Select, display and edit a record held in the simple data structure

§ Delete a record from the simple data structure

o Take a screen shot of your program performing each task above, ensuring your full name is

within each screen shot.

o Comment your source code file using documentation comments (docstrings in Python, XMLdocument

in C# or VB.Net etc.)

• Write a single unit-test using a testing framework to test one part of your program.

o Assignment 3 Unit-Test Examples (you would only do one, or a similar test):

§ Is the first record read from the dataset what we expect?

§ Is a new record added to the end of the array or list?

§ When a record is edited are the changes to the record within the array or list correct?

§ When a record is deleted from the array or list was it actually removed?

§ If the file cannot be located is an exception raised / caught / handled?

§ Etc

There is **no** requirement for a database-backed Create, Read, Update, Delete (CRUD). Load the records

into a data structure like a list or array and permit a user to create, update, delete against the in-memory

data.