

Genealogic tree: Manual

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I/ Launch the program

- > Open a terminal
- > Go to the methodologie folder
- > \$cd src/-Folder containing the project
- > \$gnatmake -gnatawa -l./ -gnata -g start.adb -To compile the project
- > \$./start

Menu

Now you can play with the program by providing an option:

- You first need to create a tree (option 1) and then display it (option 16).
- After each action, you are asked to enter a random character to proceed.

```
prize Prize
```

Option 16- Showing trees

Méthodologie de la programmation



- After having played with the program, you can save your tree by choosing option 14. Call it *gen* for instance.
- Then you can stop the program (ctrl+C or option 0) and launch it again.
- Try to load the data by using option 15. Type *gen* and tadaa... Your tree is loaded in memory!

```
• n7student@n7app01:-/Desktop/methodologie/src

File Edit View Search Terminal Help

7. One parent list
8. 2 parents list
9. 0 parent list
10. Get all ancestor of someone
11. Get descendant at a certain level
12. Get all descendants of someone
13. Clear all info
14. Save in file
15. Load from file
16. Show persons list

What's your choice ?: 15

Enter the name of the file (without extension):
Enter the name of the file (without extension):
gen
0 1 generation

189 toto tata
-- mother: 60 titi toto
```

Option 15-Loading

Méthodologie de la programmation



II/ Test the program

- > Open a terminal
- > Go to the methodologie folder
- > \$cd livrables/tests/-Folder containing tests
- > \$gnatmake -gnatawa -l../../src/ -gnata -g tests.adb -To compile the tests, it need sources files
- > \$./tests

All tests will be run one after another. The tester is important. Indeed, you will be asked to enter some input and evaluate the result (see the *tests* section of the report). So please read carefully the instructions when they appear.

Tests look like this:

Utils test result (success)

Each individual test is shown on screen with it status, for instance: "→ generate_id: success". If every tests from a module are successful, you receive a success status. "→ tests_utils: success". You can now go to the next serie of test.



Example of a failing test

When a test fail, an exception is raised and the program stop. The program gives you a description of what went wrong, here: "error in create_person → invalid person gender". By the way, this happened because I did not provide the right entry info requested by the test. In case of a real error, the developer would have to fix it, recompile and try again.

```
insert: '2', ' 707', 'n', 'bibi', 'baba', 'd', '0'

**** Welcome to the Genealogic tree ****

Choose an option:
0. Quit program
1. Create tree
2. Add parent
3. Get number of ancestor
4. Get ancestor at a certain level
5. Show person tree
6. Delete person (and his ancestor)
7. One parent list
8. 2 parents list
9. 0 parent list
10. Get all ancestor of someone
11. Get descendant at a certain level
12. Get all descendants of someone
13. Clear all info
14. Save in file
15. Load from file
16. Show persons list
```

Main test example

As discussed in the report, we do integration testing for *main*. Here you would have to enter this highlighted serie of commands for this particular test to execute properly.

```
tests_main: success

All tests successfull

n7student@n7app01:~/Desktop/methodologie/livrables/tests$ |
```

Expected result