

BIL 101 INTRODUCTION TO COMPUTER SCIENCE

HW 07

Due to 23/11/2016 - 09:00

IMPORTANT!

Submit a .docx, a .pl and a .py file to moodle. The name of your files should be:

YOURNUMBER_YOURNAME_YOURSURNAME

Any other name formats will lose points.

PART 1 (Submit to moodle / .docx)

- Explain declarative and imperative programming paradigms.
- Give code examples of at least 10 lines in a declarative and an imperative programming language.
- Explain each line of the code examples.

PART 2 (Submit to moodle / .pl)

- Is Prolog a declarative, an imperative or a functional programming language? Why?
- Create your family tree with Prolog.
- Use predicates: Female, Male, Parent, Child, Sibling
- Create rules: Mother, Father, Brother, Sister, Daughter, Son, Grandmother, Aunt

PART 3 (Submit to moodle / .py)

- Is Python a declarative, an imperative or a functional programming language? Why?
- Create your family tree by using dictionary and list structures in Python.
- Write a program that asks the user to enter a name and writes the relations of the name.