Assignment 0 (A0) First steps in Python

First steps in Python



Objectives

Beginning to work with Python

- Setup Python working environment
- Execute simple instructions using the Python interpreter
- Implement simple programs using Python IDLE and execute them



Setup Python working environment

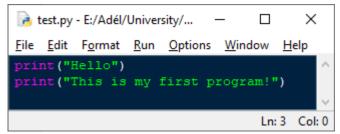
- Download the latest version of Python (3.9.x) from http://www.python.org/
- Choose the Windows x86-64 executable installer
- Launch the executable file. Check "Add Python 3.6 to PATH" and then select "Customize installation".
- For more instructions on Python installation: http://www.youtube.com/watch?v=4Mf0h3HphEA

Using the Python interpreter

- IDLE = Integrated DeveLopment Environment
- Launch the IDLE from Start menu/Search Windows
- Try some simple instructions (see example below)
- Use the interactive mode programming

• Use the scripting mode programming: File -> New File...

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To run your code: Run-> Run module (F5)



Problem specification

- 1. Compute the sum of two given numbers.
- 2. Compute the product of the first n natural numbers.
- Verify if a given number is perfect number.
 Hint: a number is called perfect when the sum of its positive divisors (less than the itself) is equal to the number
 e.g. 6 = 1 + 2 + 3

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```
IDLE Shell 3.9.4
                                                              ×
                                                        File Edit Shell Debug Options Window Help
>>> 2 * 3 - (6 / 3)
4.0
>>> print("Hello there!")
Hello there!
>>> a = 2
>>> print("a is ", a)
>>> a + 5
>>> b = a + 5
>>> a
>>> b
>>> c = input("Give me c: ")
Give me c: 3
131
>>> (a + b) / int(c)
3.0
>>> a % 2
>>> if a % 2 == 9:
        print ("even")
>>> if a % 2 == 0:
        print("even")
even
                                                        Ln: 42 Col: 4
```