Lab 01 First steps

# **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

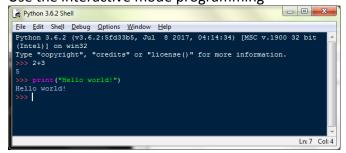
### **Setup Python working environment**



- Download Python 3.6.x from <a href="http://www.python.org/">http://www.python.org/</a>
- Choose the Windows x86-64 executable installer
- Launch the executable file. Check "Add Python 3.5 to PATH" and then select "Customize installation".
- On the lab computers, use "C:\Temp\Python36" as the installing folder.
- 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...

```
Eile Edit Format Run Options Window Help

print("Hello!")

print("This is my first program.")
```

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## Solve some simple problems

- 1) Compute the sum of two given numbers.
- 2) Compute the product of the first *n* natural numbers.
- 3) Verify if a given number is perfect square.

```
_ _ _ X
Python 3.6.2 Shell
File Edit Shell Debug Options Window Help
Type "copyright", "credits" or "license()" for more information.
>>> 2+3
>>> 2*3-6
>>> 2*3-(6/3)
>>> 2**3
>>> print("Hello there!")
Hello there!
>>> a = 2
>>> print("a is ", a)
>>> a+5
>>> a
>>> b=a+5
>>> b
>>> c=input("Give me c: ")
Give me c: 3
>>> c
>>> (a+b)/int(c)
>>> a % 2
>>> if a % 2 == 9:
        print("even")
>>> if a % 2 == 0:
        print("even")
                                                             Ln: 41 Col: 4
```