Thonny

# Thonny - Python IDE for beginners

* Thonny comes with Python built in, so just one simple installer is needed and you're ready to learn programming.

https://thonny.org/

* Download

thonny-4.1.6.exe

or

thonny-4.1.6-windows-portable.zip

* Install
* Unzip

thonny-4.1.6-windows-portable.zip

* Directory

\thonny-4.1.6-windows-portable

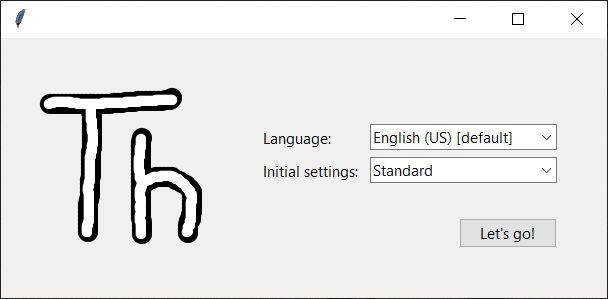
* Copy **thonny-4.1.4-windows-portable** to **C:\thonny-4.1.4-windows-portable**

C:\thonny-4.1.6-windows-portable

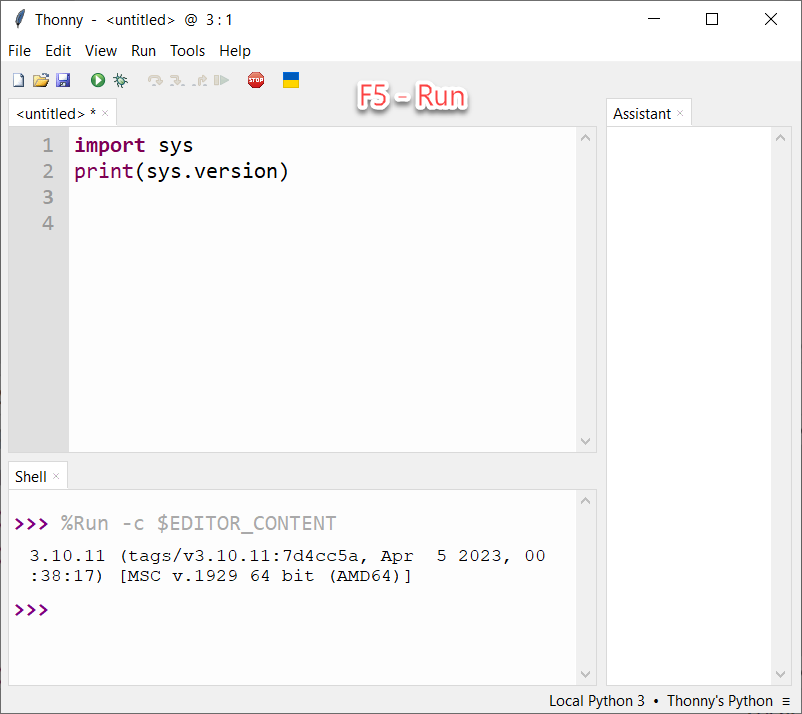
## Start

* Run

C:\thonny-4.1.4-windows-portable\thonny.exe

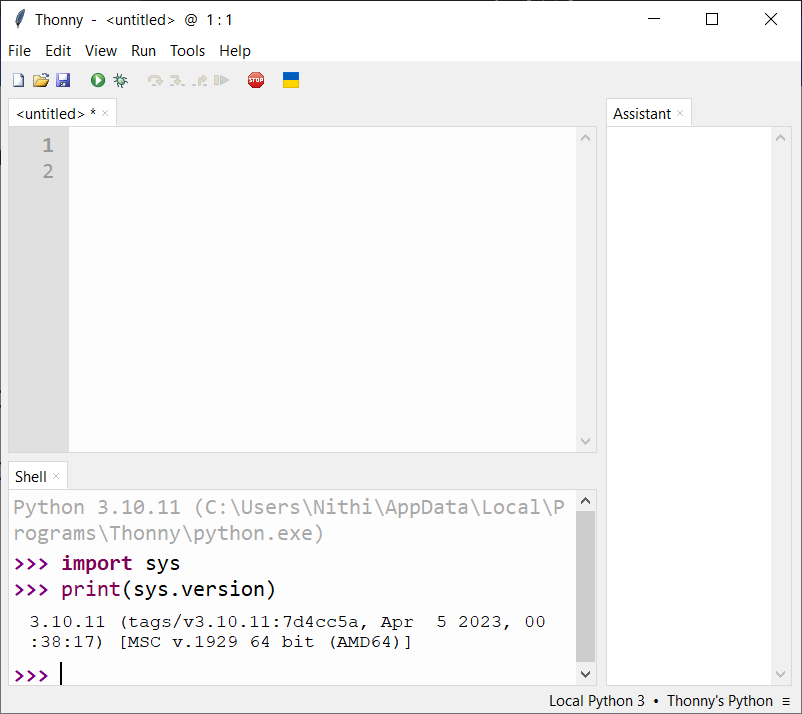


## Source Code



## IDLE

* IDLE - Integrated Development and Learning Environment



## Debug

* ป้อนชุดคำสั่ง และบันทึก

**def** factorial(num):

**if** num == 1:

**return** 1

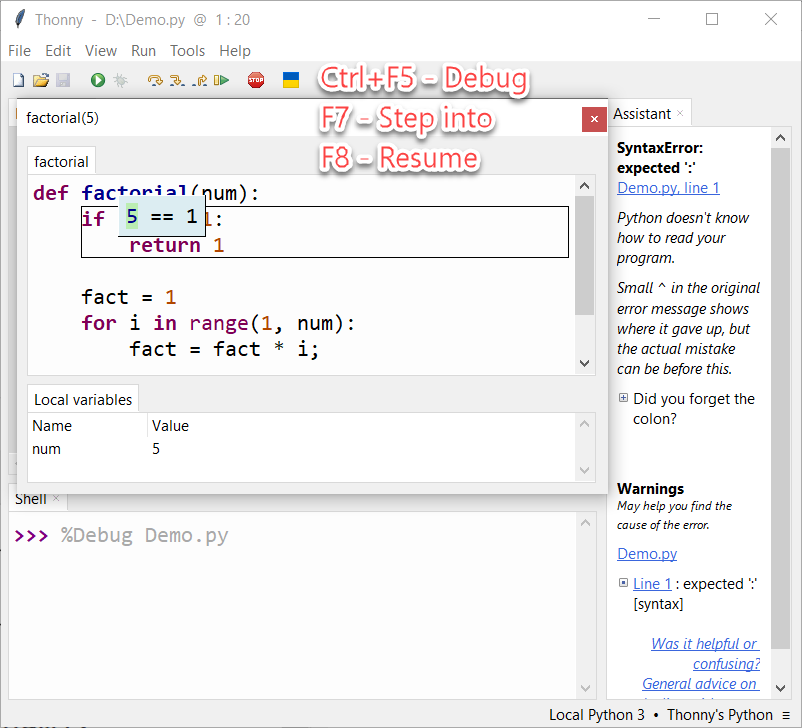
fact = 1

**for** i **in** **range**(1, num):

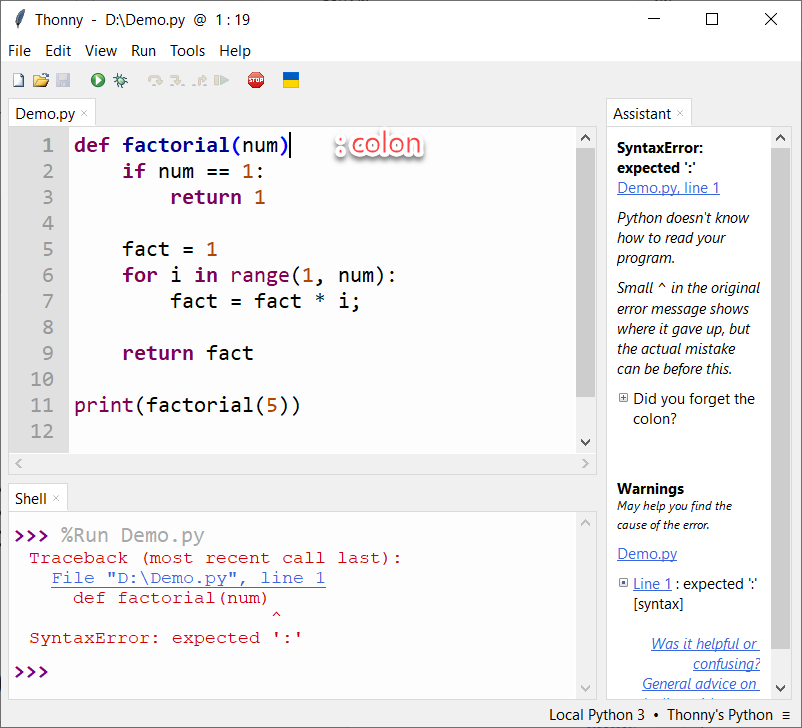
fact = fact \* i;

**return** fact

**print**(factorial(5))



## Assistant



## PIP - Package manager for Python

Tools > Open system shell

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Some Python commands in the PATH of this session:

- python -> C:\Thonny-4.1.6-windows-portable\python.exe

- pip -> C:\Thonny-4.1.6-windows-portable\Scripts\pip.exe

- pip3 -> C:\Thonny-4.1.6-windows-portable\Scripts\pip3.exe

- pip3.10 -> C:\Thonny-4.1.6-windows-portable\Scripts\pip3.10.exe

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D:\>

* pip version

D:\>pip --version

pip 23.0.1 from C:\Thonny-4.1.6-windows-portable\lib\site-packages\pip (python 3.10)

* pip upgrade

python -m pip install --upgrade pip

Requirement already satisfied: pip in c:\thonny-4.1.6-windows-portable\lib\site-packages (23.0.1)

Collecting pip

Downloading pip-24.3.1-py3-none-any.whl (1.8 MB)

---------------------------------------- 1.8/1.8 MB 19.3 MB/s eta 0:00:00

Installing collected packages: pip

Attempting uninstall: pip

Found existing installation: pip 23.0.1

Uninstalling pip-23.0.1:

Successfully uninstalled pip-23.0.1

Successfully installed pip-24.3.1

* list package

pip list

* install package

pip install numpy

* show package information

pip show numpy

* install package version

pip install numpy==1.21.0

* upgrade package

pip install --upgrade numpy

* uninstall package

pip uninstall numpy