

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

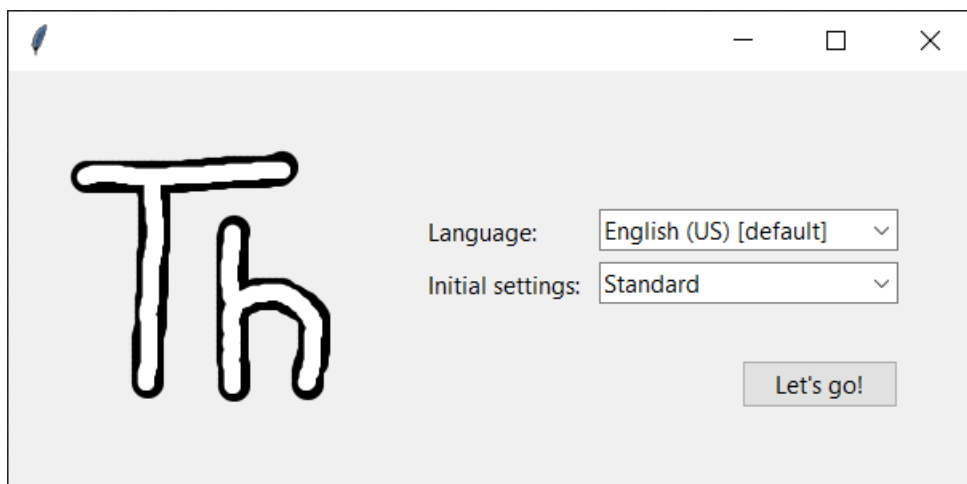
- Copy **thonny-4.1.4-windows-portable** to **C:\thonny-4.1.4-windows-portable**

C:\thonny-4.1.6-windows-portable

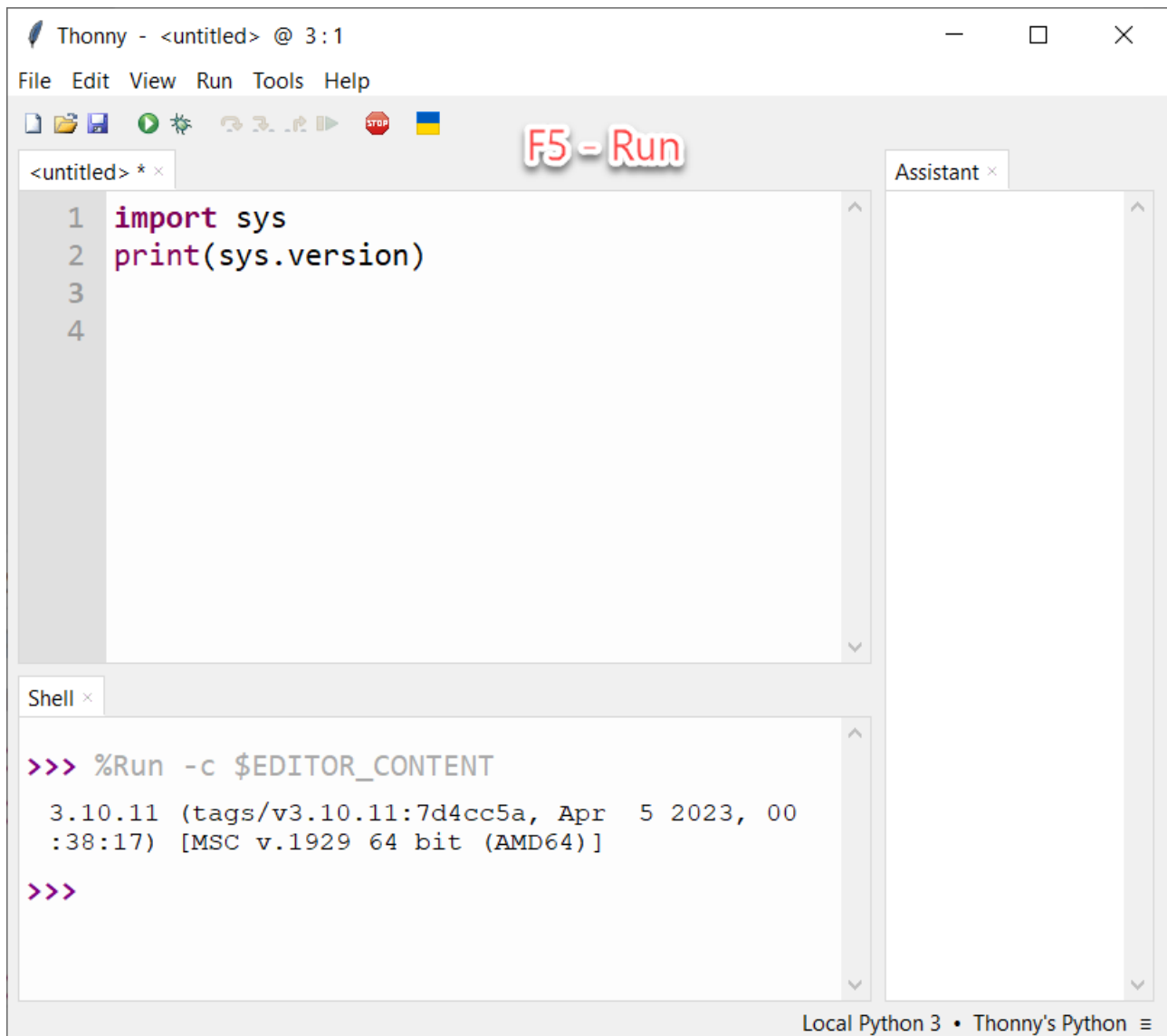
Start

- ▶ Run

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



Source Code

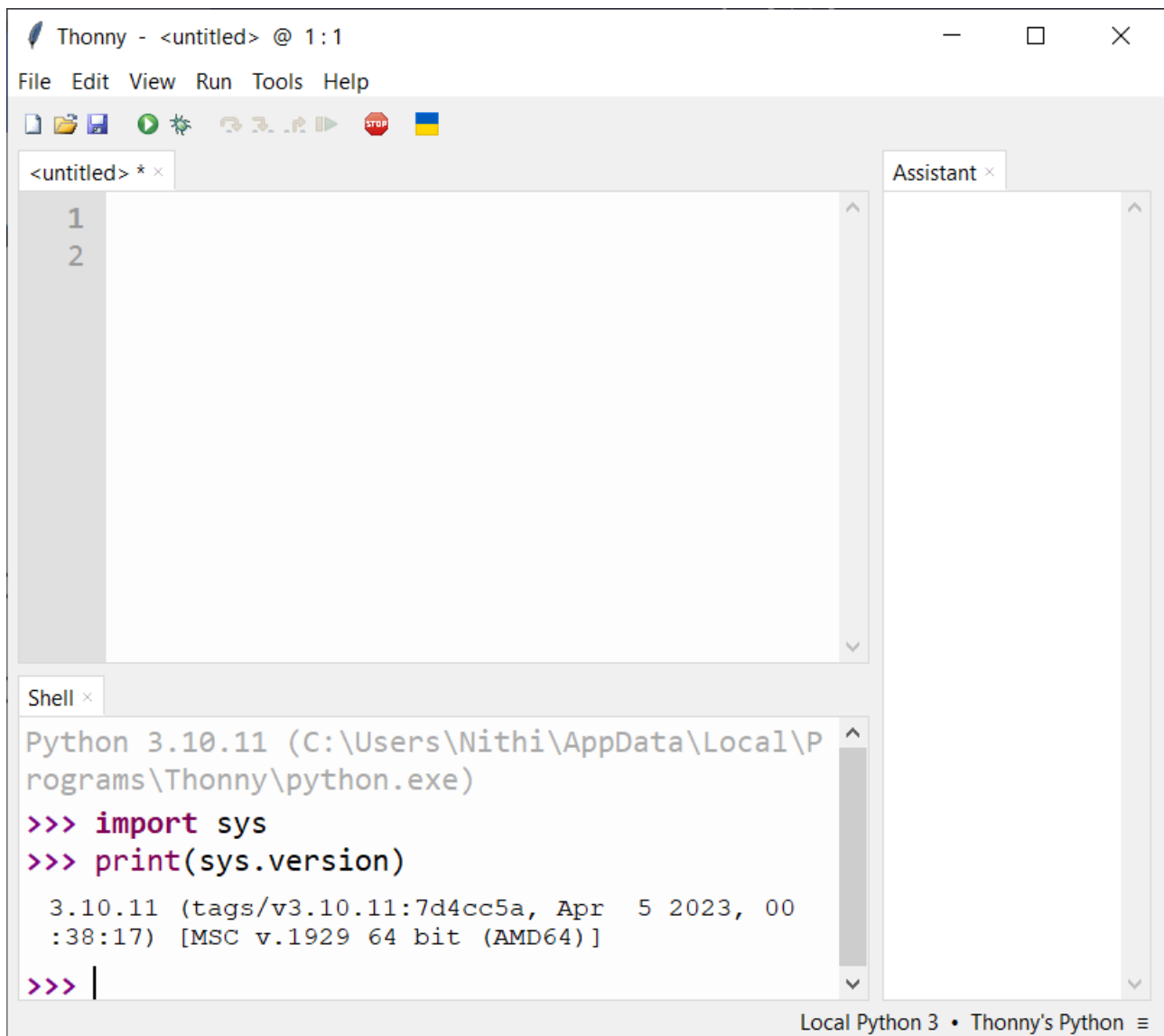


The screenshot shows the Thonny Python IDE interface. The main editor window displays a Python script with two lines of code: `import sys` and `print(sys.version)`. A red "F5 - Run" button is overlaid on the editor. Below the editor is a Shell window showing the output of the script: `>>> %Run -c $EDITOR_CONTENT`, followed by the Python version and system information: `3.10.11 (tags/v3.10.11:7d4cc5a, Apr 5 2023, 00:38:17) [MSC v.1929 64 bit (AMD64)]`. The Assistant window is empty. The status bar at the bottom indicates "Local Python 3 • Thonny's Python".

```
Thonny - <untitled> @ 3:1
File Edit View Run Tools Help
<untitled> * x
1 import sys
2 print(sys.version)
3
4
Assistant x
Shell x
>>> %Run -c $EDITOR_CONTENT
3.10.11 (tags/v3.10.11:7d4cc5a, Apr 5 2023, 00:38:17) [MSC v.1929 64 bit (AMD64)]
>>>
Local Python 3 • Thonny's Python
```

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))
```

Thonny - D:\Demo.py @ 1:20

File Edit View Run Tools Help

Ctrl+F5 - Debug
F7 - Step into
F8 - Resume

factorial(5)

```
def factorial(num):
    if 5 == 1:
        return 1

    fact = 1
    for i in range(1, num):
        fact = fact * i;

    return fact

print(factorial(5))
```

Local variables

Name	Value
num	5

Shell

```
>>> %Debug Demo.py
```

Assistant

SyntaxError:
expected ':'
[Demo.py, line 1](#)

Python doesn't know how to read your program.

Small ^ in the original error message shows where it gave up, but the actual mistake can be before this.

Did you forget the colon?

Warnings
May help you find the cause of the error.

[Demo.py](#)

Line 1 : expected ':'
[syntax]

[Was it helpful or confusing?](#)
[General advice on](#)

Local Python 3 • Thonny's Python

Assistant

Thonny - D:\Demo.py @ 1:19

File Edit View Run Tools Help

Demo.py x

```

1 def factorial(num)|
2     if num == 1:
3         return 1
4
5     fact = 1
6     for i in range(1, num):
7         fact = fact * i;
8
9     return fact
10
11 print(factorial(5))
12

```

Assistant x

SyntaxError:
expected ':'
[Demo.py, line 1](#)

Python doesn't know how to read your program.

Small ^ in the original error message shows where it gave up, but the actual mistake can be before this.

Did you forget the colon?

Warnings
May help you find the cause of the error.

[Demo.py](#)

Line 1: expected ':'
[syntax]

[Was it helpful or confusing?](#)
[General advice on](#)

Shell x

```

>>> %Run Demo.py
Traceback (most recent call last):
  File "D:\Demo.py", line 1
    def factorial(num)
                        ^
SyntaxError: expected ':'
>>>

```

Local Python 3 • Thonny's Python ≡

PIP - Package manager for Python

Tools > Open system shell

```
*****
```

```
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
```

```
*****
```

```
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
```