

## Лабораторная работа №7

### Шаг 1 - Установка Sphinx

Для начала был установлен генератор документации Sphinx с помощью менеджера пакетов `pip` - **`pip install sphinx`**

```
88.7/88.7 kB 1.8 MB/s eta 0:00:00
Downloading certifi-2025.4.26-py3-none-any.whl (159 kB)
159.6/159.6 kB 2.7 MB/s eta 0:00:00
Downloading charset_normalizer-3.4.2-cp39-cp39-macosx_10_9_universal2.whl (201 kB)
201.7/201.7 kB 3.1 MB/s eta 0:00:00
Downloading idna-3.10-py3-none-any.whl (70 kB)
70.4/70.4 kB 1.7 MB/s eta 0:00:00
Downloading MarkupSafe-3.0.2-cp39-cp39-macosx_10_9_universal2.whl (14 kB)
Downloading urllib3-2.4.0-py3-none-any.whl (128 kB)
128.7/128.7 kB 3.0 MB/s eta 0:00:00
Downloading zipp-3.22.0-py3-none-any.whl (9.8 kB)
Installing collected packages: zipp, urllib3, tomli, sphinxcontrib-serializinghtml, sphinxcontrib-qthelp, sphinxcontrib-jsmath, sphinxcontrib-htmlhelp, sphinxcontrib-devhelp, sphinxcontrib-applehelp, snowballstemmer, Pygments, packaging, MarkupSafe, imagesize, idna, docutils, charset-normalizer, certifi, babel, alabaster, requests, Jinja2, importlib-metadata, sphinx
Successfully installed Jinja2-3.1.6 MarkupSafe-3.0.2 Pygments-2.19.1 alabaster-0.7.16 babel-2.17.0 certifi-2025.4.26 charset-normalizer-3.4.2 docutils-0.21.2 idna-3.10 imagesize-1.4.1 importlib-metadata-8.7.0 packaging-25.0 requests-2.32.3 snowballstemmer-3.0.1 sphinx-7.4.7 sphinxcontrib-applehelp-2.0.0 sphinxcontrib-devhelp-2.0.0 sphinxcontrib-htmlhelp-2.1.0 sphinxcontrib-jsmath-1.0.1 sphinxcontrib-qthelp-2.0.0 sphinxcontrib-serializinghtml-2.0.0 tomli-2.2.1 urllib3-2.4.0 zipp-3.22.0

[notice] A new release of pip is available: 23.2.1 -> 25.1.1
[notice] To update, run: pip install --upgrade pip
(.venv) appacher@MacBook-Pro-Pavlenko Lab7 %
```

### Шаг 2 - Инициализация документации

Далее была выполнена инициализация проекта с помощью команды - **`sphinx-quickstart`**

```
(.venv) appacher@MacBook-Pro-Pavlenko Lab7 % sphinx-quickstart
Welcome to the Sphinx 7.4.7 quickstart utility.

Please enter values for the following settings (just press Enter to
accept a default value, if one is given in brackets).

Selected root path: .

You have two options for placing the build directory for Sphinx output.
Either, you use a directory "_build" within the root path, or you separate
"source" and "build" directories within the root path.
> Separate source and build directories (y/n) [n]: y

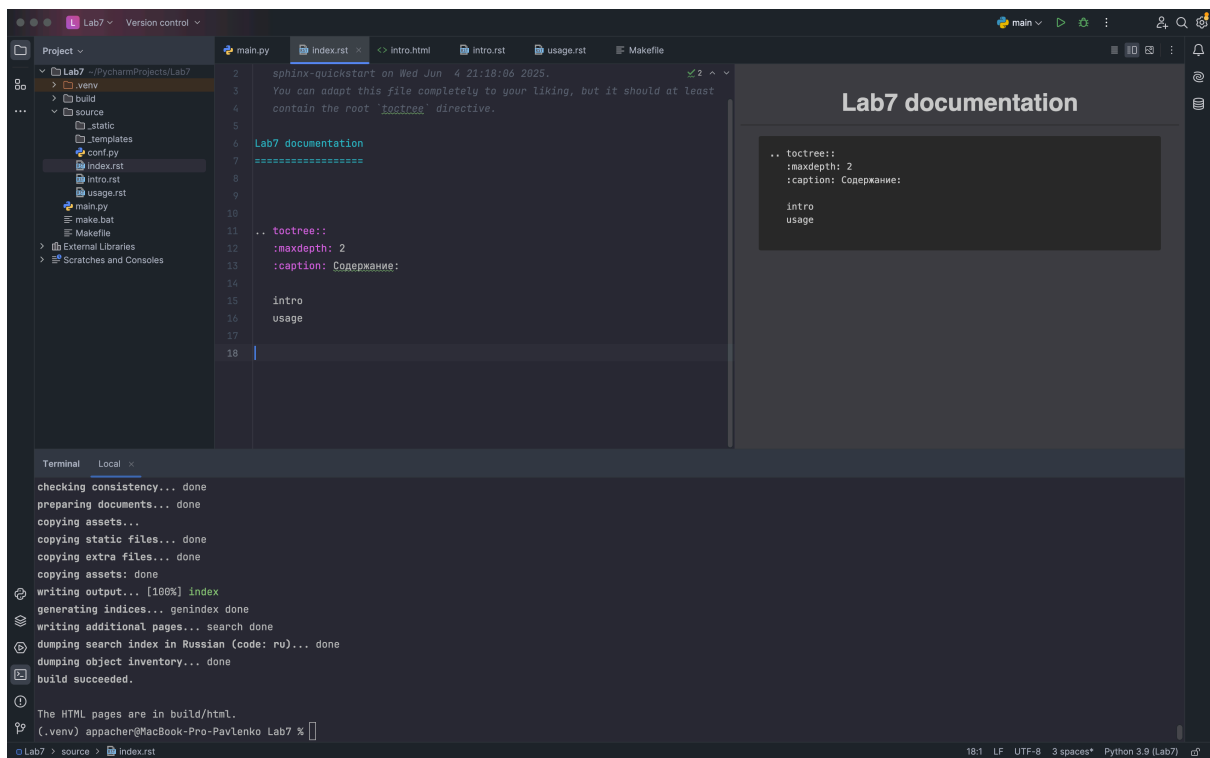
The project name will occur in several places in the built documentation.
> Project name: Lab7
> Author name(s): Pavel
> Project release []: 1.0

If the documents are to be written in a language other than English,
you can select a language here by its language code. Sphinx will then
```

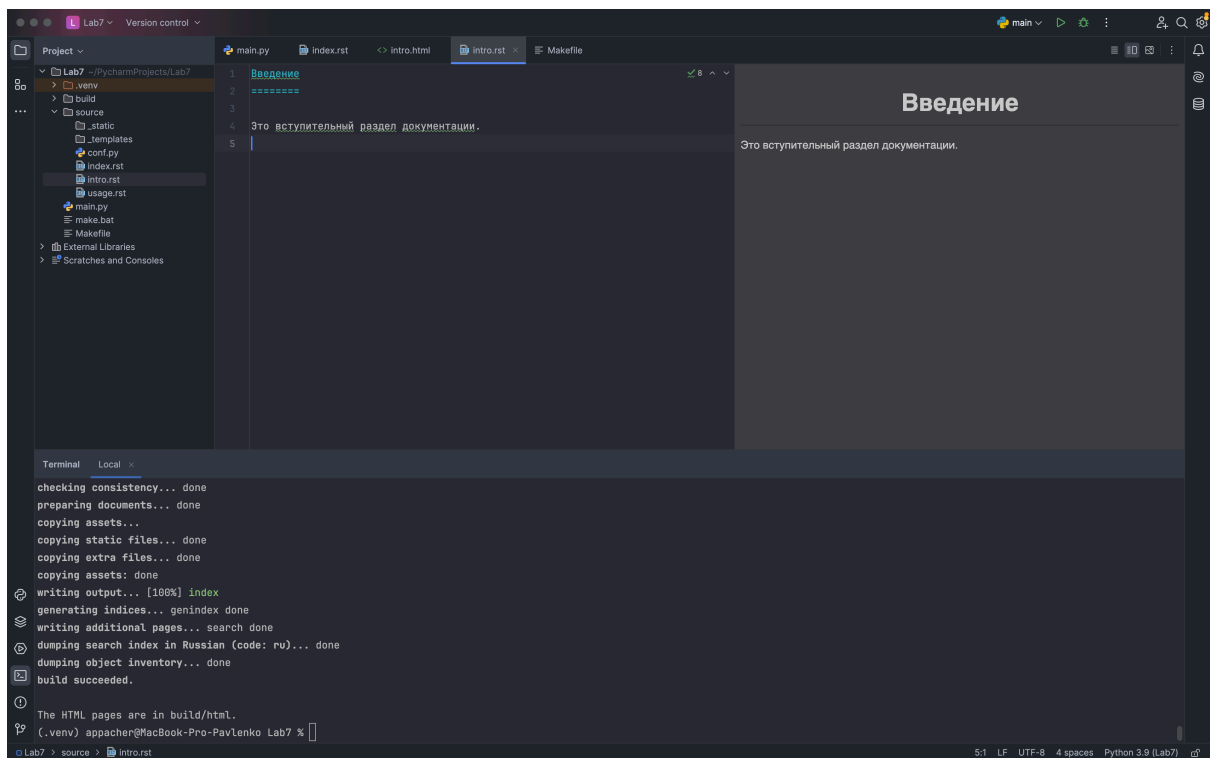
### Шаг 3 – Добавление содержимого

В файле `index.rst` была добавлена структура документации с разделами:

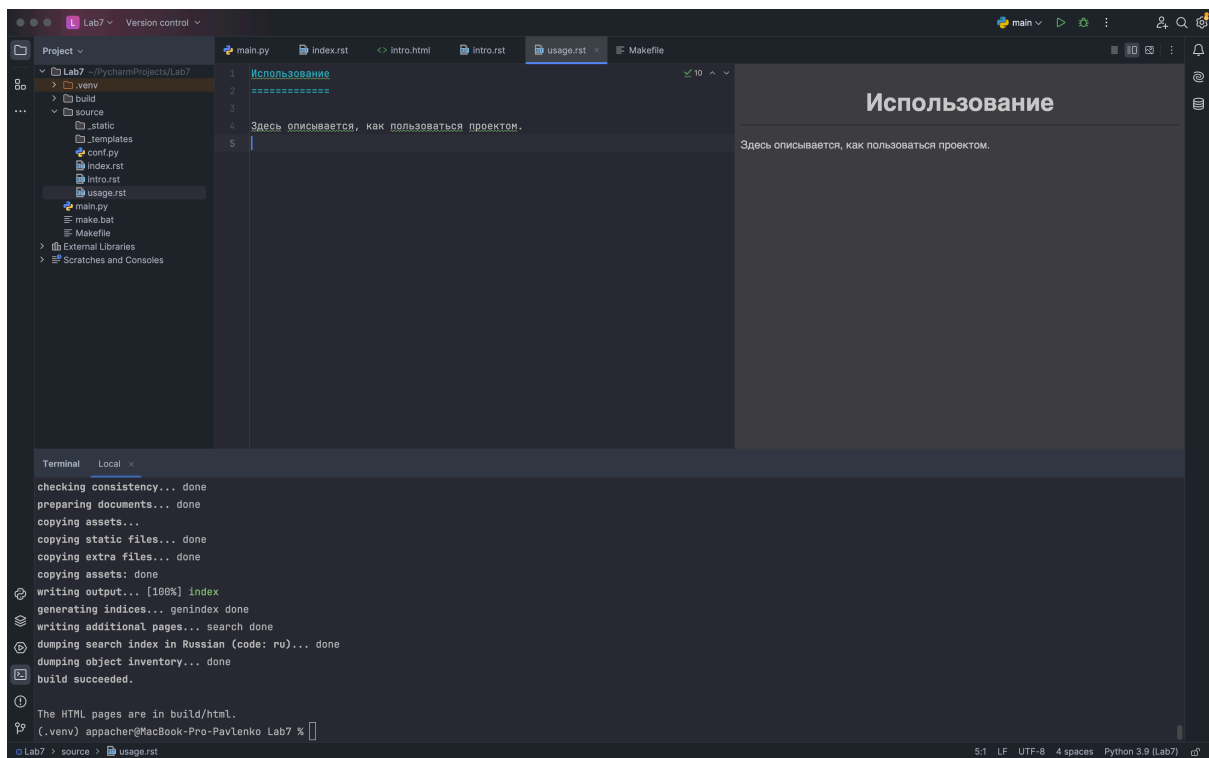
- Введение (`intro.rst`)
- Использование (`usage.rst`)



## Содержимое intro.rst:



## Содержимое usage.rst:



## Шаг 4 – Сборка документации

Для сборки документации была использована команда - **make html**

```
(.venv) appacher@MacBook-Pro-Pavlenko Lab7 % make html
Running Sphinx v7.4.7
loading translations [ru]... done
/Users/appacher/PycharmProjects/Lab7/.venv/lib/python3.9/site-packages/urllib3/_init_.py:35: NotOpenSSLWarning: urllib3 v2 only supports OpenSSL 1.1.1+, currently the 'ssl' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
warnings.warn(
loading pickled environment... done
building [mo]: targets for 0 po files that are out of date
writing output...
building [html]: targets for 1 source files that are out of date
updating environment: 0 added, 1 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
checking consistency... done
preparing documents... done
copying assets...
copying static files... done
copying extra files... done
copying assets: done
writing output... [100%] index
generating indices... genindex done
writing additional pages... search done
dumping search index in Russian (code: ru)... done
dumping object inventory... done
build succeeded.

The HTML pages are in build/html.
(.venv) appacher@MacBook-Pro-Pavlenko Lab7 %
```

После выполнения была сгенерирована HTML-документация, расположенная в папке build/html.

Далее был открыт файл index.html с нашей документацией.

