

Лекция №2

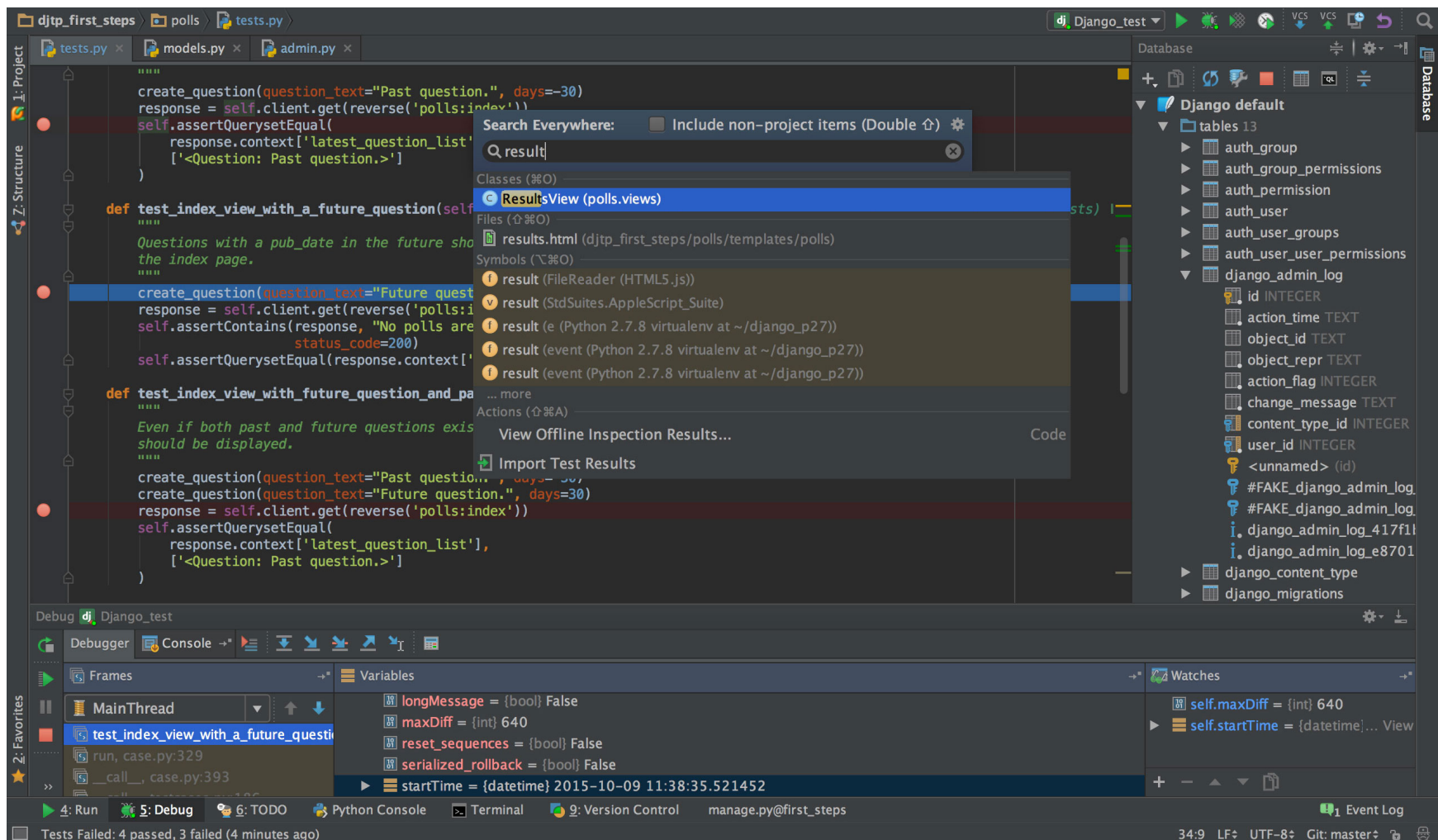
Установка python

- Windows:
 - <https://www.python.org/ftp/python/3.6.5/python-3.6.5-amd64.exe>
- MacOS:
 - <https://www.python.org/ftp/python/3.6.5/python-3.6.5-macosx10.9.pkg>
 - `brew install python`
- Linux:
 - `apt-get install python3`

Редактор для разработки (IDE)

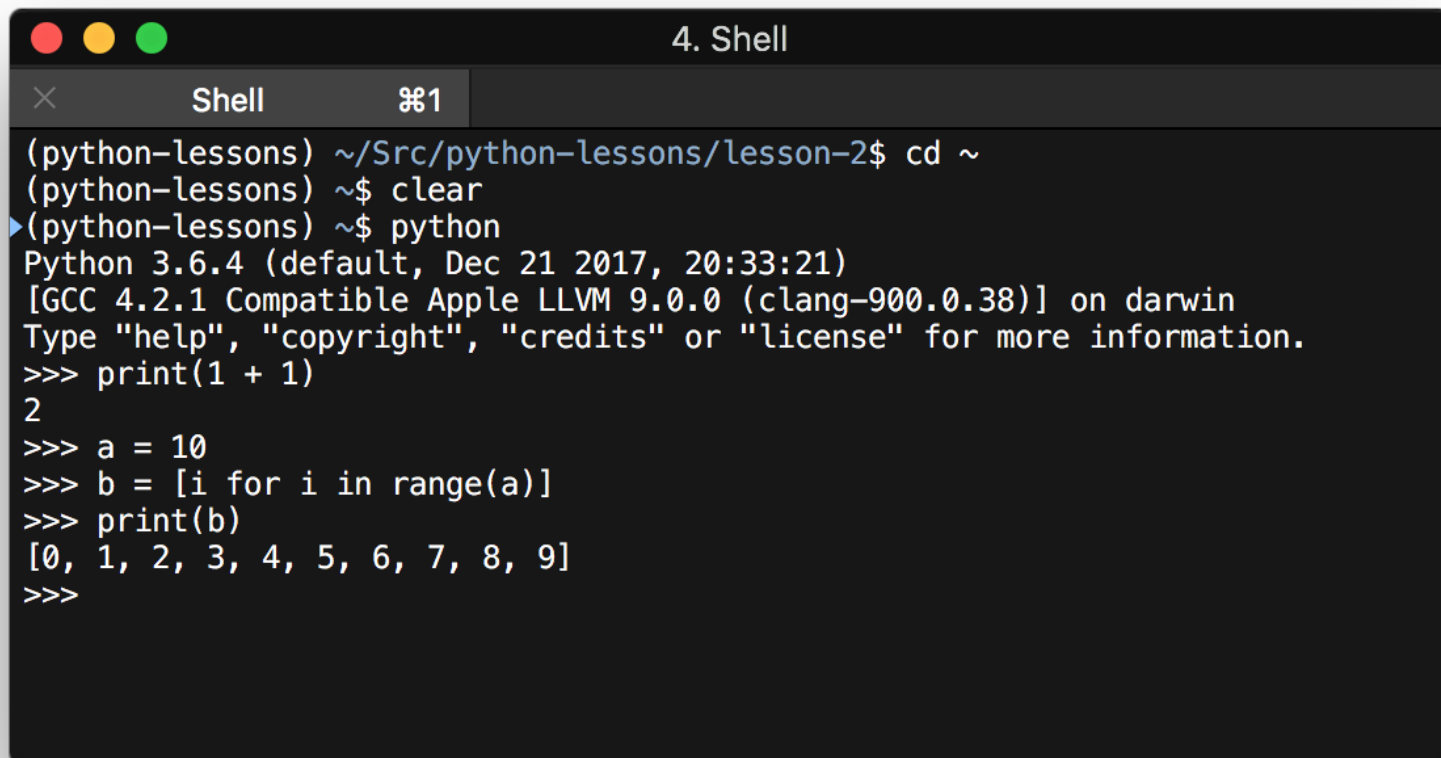
Pycharm Community Edition

Скачать: <https://www.jetbrains.com/pycharm/download/>



Запускаем python:

```
$ python
```

A screenshot of a macOS terminal window titled "4. Shell". The window has a dark background and standard macOS window controls (red, yellow, green buttons) in the top-left corner. The terminal shows a sequence of commands and their outputs. The prompt is "(python-lessons) ~/Src/python-lessons/lesson-2\$". The commands executed are "cd ~", "clear", and "python". The output of "python" shows the Python 3.6.4 startup banner, including the version, date, time, and compiler information. The subsequent Python code is executed in a REPL style, showing the results of each command.

```
(python-lessons) ~/Src/python-lessons/lesson-2$ cd ~
(python-lessons) ~$ clear
(python-lessons) ~$ python
Python 3.6.4 (default, Dec 21 2017, 20:33:21)
[GCC 4.2.1 Compatible Apple LLVM 9.0.0 (clang-900.0.38)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> print(1 + 1)
2
>>> a = 10
>>> b = [i for i in range(a)]
>>> print(b)
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
>>>
```

Стандартная библиотека

1. Полный список модулей стандартной библиотеки:

<https://docs.python.org/3/library/index.html>

2. `datetime` : <https://docs.python.org/3/library/datetime.html>

3. `os.path` : <https://docs.python.org/3/library/os.path.html>

4. работа с файлами:

<https://docs.python.org/3/tutorial/inputoutput.html>

Пакетный менеджер

1. `pip` - пакетный менеджер
2. `pip freeze` - вывести список установленных пакетов
3. `pip install {package}` - установка пакета

Python package index

- <https://pypi.org>

Полезные библиотеки:

- ipython - Удобный интерактивный python
<https://pypi.org/project/ipython/>
- requests - HTTP-запросы <https://pypi.org/project/requests/>