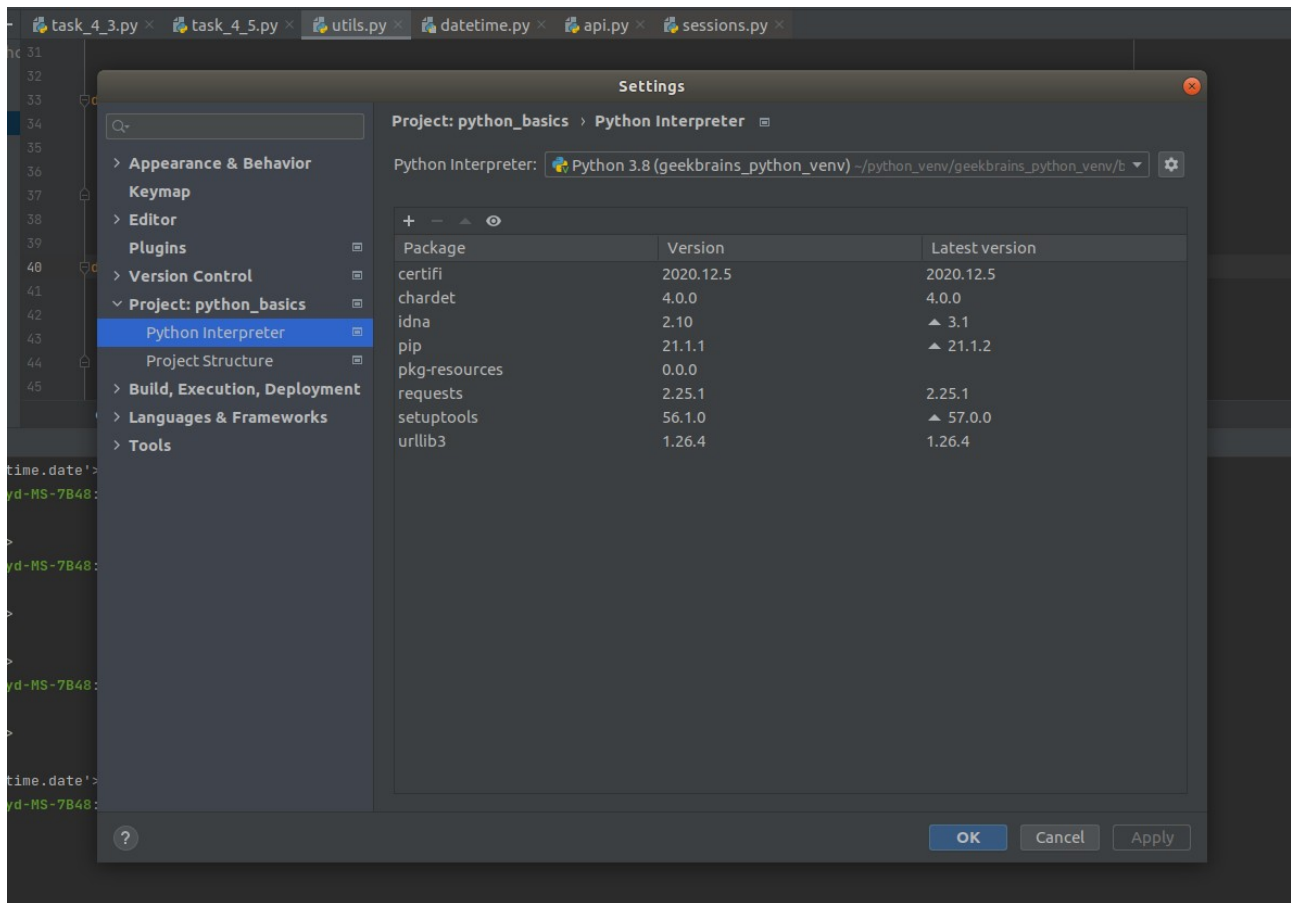


1) Проверяем pillow в глобальном окружении. Установлена версия 5.1.0

```
File Edit View Search Terminal Help
sergeyd@sergeyd-MS-7B48:~$ pip3 freeze
apturl==0.5.2
asn1crypto==0.24.0
Brlapi==0.6.6
certifi==2018.1.18
chardet==3.0.4
command-not-found==0.3
cryptography==2.1.4
cupshelpers==1.0
defer==1.0.6
distro-info===0.18ubuntu0.18.04.1
httplib2==0.9.2
idna==2.6
keyring==10.6.0
keyrings.alt==3.0
language-selector==0.1
launchpadlib==1.10.6
lazr.restfulclient==0.13.5
lazr.uri==1.0.3
louis==3.5.0
macaroonbakery==1.1.3
Mako==1.0.7
MarkupSafe==1.0
netifaces==0.10.4
oauth==1.0.1
olefile==0.45.1
pexpect==4.2.1
Pillow==5.1.0
protobuf==3.0.0
pycairo==1.16.2
```

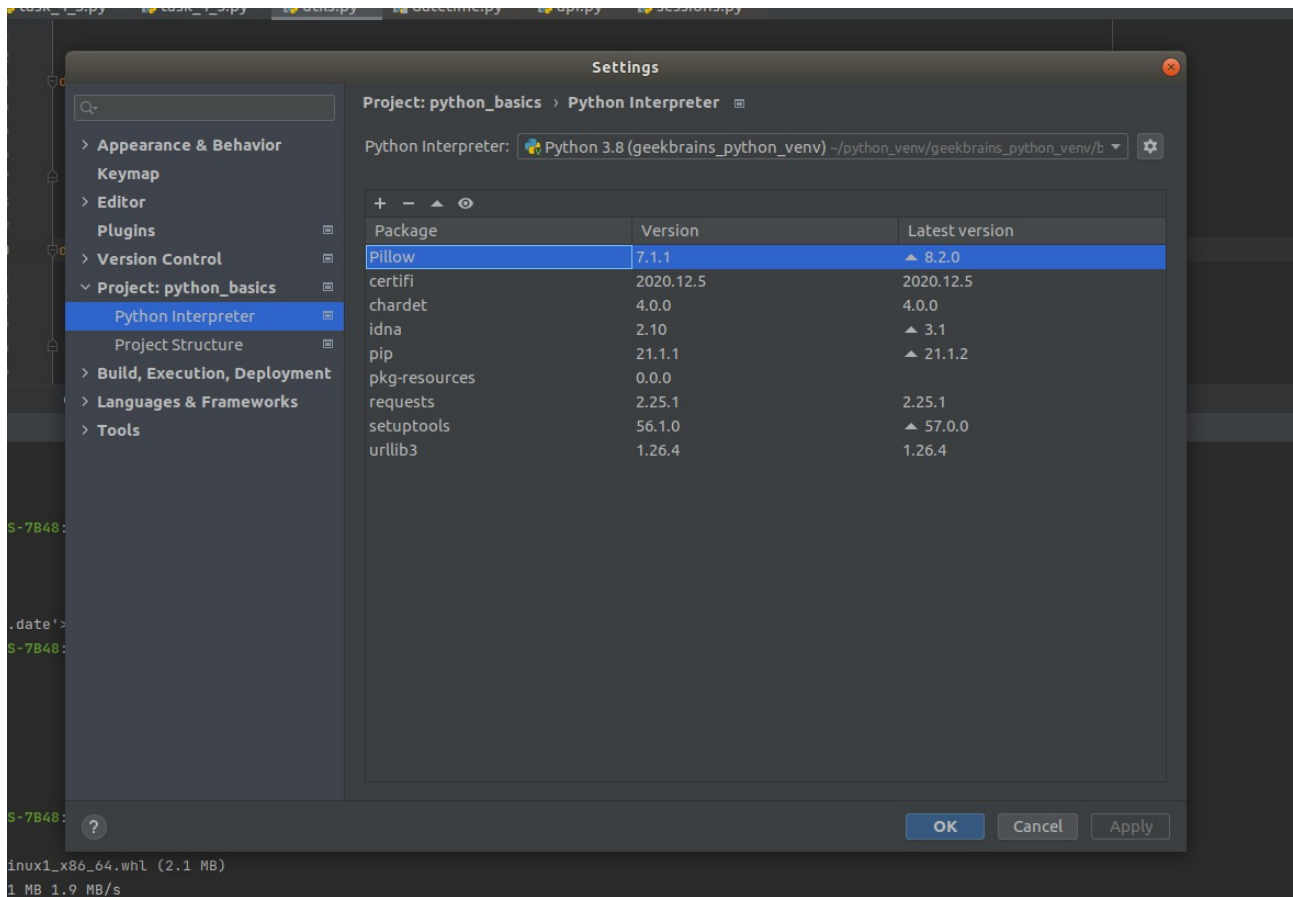
2) Проверяем pillow в виртуальном окружении (окружение было создано изначально, перед работой с задачами урока 1). Pillow не установлен.

```
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$ pip freeze
certifi==2020.12.5
chardet==4.0.0
idna==2.10
pkg-resources==0.0.0
requests==2.25.1
urllib3==1.26.4
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$
```



### 3) Устанавливаем pillow 7.1.1 в виртуальное окружение

```
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$ pip install pillow==7.1.1
Collecting pillow==7.1.1
  Downloading Pillow-7.1.1-cp38-cp38-manylinux1_x86_64.whl (2.1 MB)
    | 2.1 MB 1.9 MB/s
Installing collected packages: pillow
Successfully installed pillow-7.1.1
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$
```



#### 4) Деактивируем виртуальное окружение

```
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$ deactivate
sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$
```

#### 5) Активируем виртуальное окружение как было ранее, т.к. ничего не работает :)

```
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$ python task_4_5.py
26.79, 2021-05-22
41.59, 2021-05-22
11.44, 2021-05-22
13.93, 2021-05-22
73.58, 2021-05-22

<class 'list'>
AMD, AUD, AZN, BGN, BRL, BYN, CAD, CHF, CNV, CZK, DKK, EUR, GBP, HKD, HUF, INR, JPY, KGS, KRW, KZT, MDL, NOK, PLN, RON, SEK, SGD, TJS, TMT, TRY, UAH, USD, UZS, XDR, ZAR
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$ deactivate
sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$ python task_4_5.py
File "task_4_5.py", line 7
    print(*currency_rates('UAH'), sep=', ')
          ^
SyntaxError: invalid syntax
sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$ source ~/python_venv/geekbrains_python_venv/bin/activate
(geekbrains_python_venv) sergeyd@sergeyd-MS-7B48:~/PycharmProjects/python_basics/sergey_dusanyuk_dz_4$
```