

**МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ  
РОССИЙСКОЙ ФЕДЕРАЦИИ**  
**Федеральное государственное автономное  
образовательное учреждение высшего образования  
«СЕВЕРО-КАВКАЗСКИЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ»**

**Кафедра Программная инженерия**

**Отчет по лабораторной работе № 17  
по дисциплине «Основы Программной инженерии»**

Выполнил студент группы ПИЖ-Б-О-21-  
1

Шарипков Иван. « 9 » сентября 2022г.

Подпись студента \_\_\_\_\_

Работа защищена «  
» \_\_\_\_\_ 20 \_\_ г.

Ставрополь 2022

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Выбрать Командная строка

C:\Users\User>pip install -U pip
Requirement already satisfied: pip in c:\users\user\anaconda3\lib\site-packages (22.2.2)
Collecting pip
  Downloading pip-23.0-py3-none-any.whl (2.1 MB)
    ----- 2.1/2.1 MB 1.4 MB/s eta 0:00:00
ERROR: To modify pip, please run the following command:
C:\Users\User\anaconda3\python.exe -m pip install -U pip

C:\Users\User>anaconda3\python.exe -m pip install -U pip
Requirement already satisfied: pip in c:\users\user\anaconda3\lib\site-packages (22.2.2)
Collecting pip
  Using cached pip-23.0-py3-none-any.whl (2.1 MB)
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 22.2.2
    Uninstalling pip-22.2.2:
      Successfully uninstalled pip-22.2.2
Successfully installed pip-23.0
```

```
Выбрать Командная строка

Receiving objects: 100% (3/3), done.

C:\Users\User>pip list
Package                               Version
-----
alabaster                             0.7.12
anaconda-client                       1.11.0
anaconda-navigator                   2.3.1
anaconda-project                     0.11.1
anyio                                 3.5.0
appdirs                              1.4.4
argon2-cffi                          21.3.0
argon2-cffi-bindings                 21.2.0
arrow                                 1.2.2
astroid                              2.11.7
astropy                              5.1
atomicwrites                          1.4.0
attrs                                21.4.0
Automat                              20.2.0
autopep8                             1.6.0
Babel                                 2.9.1
```

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Выбрать Anaconda Prompt (anaconda3)

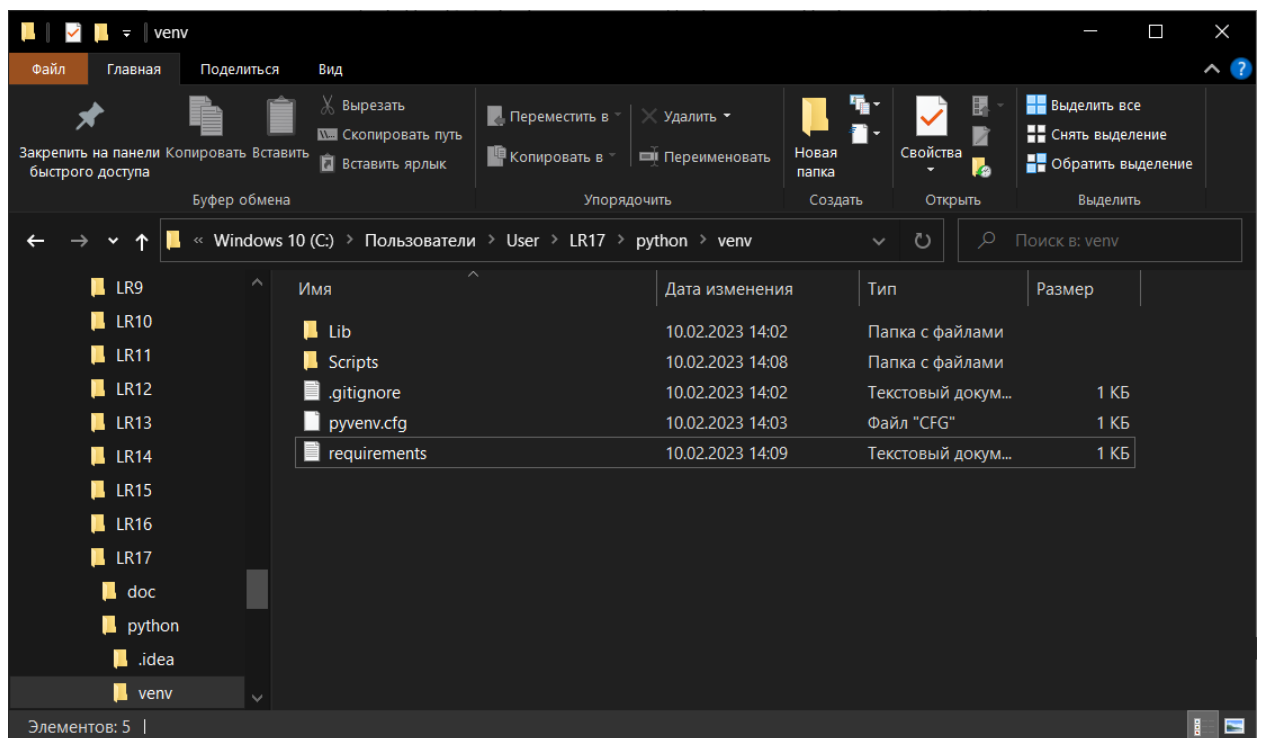
(base) C:\Users\User>cd C:\Users\User\LR17\python

(base) C:\Users\User\LR17\python>python3 -m venv testVenv
Python
(base) C:\Users\User\LR17\python>pip install virtualenv
Collecting virtualenv
  Downloading virtualenv-20.19.0-py3-none-any.whl (8.7 MB)
    ----- 8.7/8.7 MB 892.8 kB/s eta 0:00:00
Requirement already satisfied: platformdirs<4,>=2.4 in c:\users\user\anaconda3\lib\site-packages (from virtualenv) (2.5.2)
Requirement already satisfied: filelock<4,>=3.4.1 in c:\users\user\anaconda3\lib\site-packages (from virtualenv) (3.6.0)

Collecting distlib<1,>=0.3.6
  Downloading distlib-0.3.6-py2.py3-none-any.whl (468 kB)
    ----- 468.5/468.5 kB 376.0 kB/s eta 0:00:00
Installing collected packages: distlib, virtualenv
Successfully installed distlib-0.3.6 virtualenv-20.19.0

(base) C:\Users\User\LR17\python>python3 -m virtualenv venv
Python
(base) C:\Users\User\LR17\python>python -m virtualenv venv
created virtual environment CPython3.9.13.final.0-64 in 11425ms
  creator CPythonWindows(dest=C:\Users\User\LR17\python\venv, clear=False, no_vcs_ignore=False, global=False)
  seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_dir=C:\Users\User\AppData\Local\pypa\virtualenv)
    added seed packages: pip==23.0, setuptools==67.1.0, wheel==0.38.4
  activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator

(base) C:\Users\User\LR17\python>
```



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Выбрать Anaconda Prompt (anaconda3)
Collecting bcrypt>=3.2
  Downloading bcrypt-4.0.1-cp36-abi3-win_amd64.whl (152 kB)
----- 152.9/152.9 kB 699.5 kB/s eta 0:00:00
Collecting cryptography>=3.3
  Downloading cryptography-39.0.1-cp36-abi3-win_amd64.whl (2.5 MB)
----- 2.5/2.5 MB 442.2 kB/s eta 0:00:00
Collecting pynacl>=1.5
  Downloading PyNaCl-1.5.0-cp36-abi3-win_amd64.whl (212 kB)
----- 212.1/212.1 kB 560.8 kB/s eta 0:00:00
Collecting cffi>=1.12
  Downloading cffi-1.15.1-cp39-cp39-win_amd64.whl (179 kB)
----- 179.1/179.1 kB 337.7 kB/s eta 0:00:00
Collecting pycparser
  Downloading pycparser-2.21-py2.py3-none-any.whl (118 kB)
----- 118.7/118.7 kB 695.2 kB/s eta 0:00:00
Installing collected packages: pycparser, invoke, bcrypt, cffi, pynacl, cryptography, paramiko, fabric
Successfully installed bcrypt-4.0.1 cffi-1.15.1 cryptography-39.0.1 fabric-3.0.0 invoke-2.0.0 paramiko-3.0.0 pycparser-2.21 pynacl-1.5.0

(venv) (base) C:\Users\User\LR17\python\venv>pip freeze
bcrypt==4.0.1
cffi==1.15.1
cryptography==39.0.1
fabric==3.0.0
invoke==2.0.0
paramiko==3.0.0
pycparser==2.21
PyNaCl==1.5.0

(venv) (base) C:\Users\User\LR17\python\venv>

```

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Выбрать Anaconda Prompt (anaconda3)
setuptools      pkgs/main/win-64::setuptools-65.6.3-py39haa95532_0
sqlite          pkgs/main/win-64::sqlite-3.40.1-h2bfff1b_0
tzdata         pkgs/main/noarch::tzdata-2022g-h04d1e81_0
vc             pkgs/main/win-64::vc-14.2-h21ff451_1
vs2015_runtime pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e58377_2
wheel          pkgs/main/noarch::wheel-0.37.1-pyhd3eb1b0_0
wincertstore    pkgs/main/win-64::wincertstore-0.2-py39haa95532_2

Proceed ([y]/n)? y

Downloading and Extracting Packages

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#   $ conda activate condaProject
#
# To deactivate an active environment, use
#
#   $ conda deactivate

(venv) (base) C:\Users\User\LR17\condaProject>conda activate condaProject
(condaProject) (venv) C:\Users\User\LR17\condaProject>

```