<20CS022>   <Ruhi Kansagara>

Faculty of Technology and Engineering

U & P U. Patel Department of Computer Engineering

Date: 01 / 12 / 2021

Practical List

Academic Year	:	2021-22	Semester	:	4
Course code	:	CE259	Course name	:	Programming in Python

Note: Practical List is for Students. We need to cover concept require to implement respective practical

Sr. No.	Aim
1.	Installation & Configuration of Python(**3.6 or 3.7**) and Virtual Environment. Along with its all major editors, IDLE, Pycharm, Anaconda, Jupyter, Interpreter etc. **Note: Do not install the latest version of python due to some backward compatibility issues.** **Please take screenshots of each point mentioned in the assignment and upload .pdf file.**

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Command Prompt

```
Microsoft Windows [Version 10.0.19043.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>cd desktop

C:\Users\admin\Desktop>python -m venv ruhi

C:\Users\admin\Desktop>.\ruhi\Scripts\activate

(ruhi) C:\Users\admin\Desktop>pip install sklearn
Collecting sklearn
  Downloading sklearn-0.0.tar.gz (1.1 kB)
Collecting scikit-learn
  Downloading scikit_learn-1.0.1-cp37-cp37m-win_amd64.whl (7.2 MB)
     |████████████████████████████████| 7.2 MB 273 kB/s
Collecting scipy>=1.1.0
  Downloading scipy-1.7.3-cp37-cp37m-win_amd64.whl (34.1 MB)
     |████████████████████████████████| 34.1 MB 53 kB/s
Collecting joblib>=0.11
  Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB)
     |████████████████████████████████| 306 kB 726 kB/s
Collecting threadpoolctl>=2.0.0
  Downloading threadpoolctl-3.0.0-py3-none-any.whl (14 kB)
Collecting numpy>=1.14.6
  Downloading numpy-1.21.5-cp37-cp37m-win_amd64.whl (14.0 MB)
     |████████████████████████████████| 14.0 MB 547 kB/s
Using legacy setup.py install for sklearn, since package 'wheel' is not installed.
Installing collected packages: numpy, scipy, joblib, threadpoolctl, scikit-learn, sklearn
    Running setup.py install for sklearn ... done
Successfully installed joblib-1.1.0 numpy-1.21.5 scikit-learn-1.0.1 scipy-1.7.3 sklearn-0.0 threadpoolctl-3.0.0
WARNING: You are using pip version 20.1.1; however, version 21.3.1 is available.
You should consider upgrading via the 'c:\users\admin\desktop\ruhi\scripts\python.exe -m pip install --upgrade pip' command.

(ruhi) C:\Users\admin\Desktop>
```

```
(ruhi) C:\Users\admin\Desktop>pip install virtualenv
Collecting virtualenv
  Downloading virtualenv-20.10.0-py2.py3-none-any.whl (5.6 MB)
     |████████████████████████████████| 5.6 MB 118 kB/s
Collecting importlib-metadata>=0.12; python_version < "3.8"
  Downloading importlib_metadata-4.10.0-py3-none-any.whl (17 kB)
Collecting platformdirs<3,>=2
  Downloading platformdirs-2.4.0-py3-none-any.whl (14 kB)
Collecting six<2,>=1.9.0
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting backports.entry-points-selectable>=1.0.4
  Downloading backports.entry_points_selectable-1.1.1-py2.py3-none-any.whl (6.2 kB)
Collecting filelock<4,>=3.2
  Downloading filelock-3.4.0-py3-none-any.whl (9.8 kB)
Collecting distlib<1,>=0.3.1
  Downloading distlib-0.3.4-py2.py3-none-any.whl (461 kB)
     |████████████████████████████████| 461 kB 225 kB/s
Collecting zipp>=0.5
  Downloading zipp-3.6.0-py3-none-any.whl (5.3 kB)
Collecting typing-extensions>=3.6.4; python_version < "3.8"
  Downloading typing_extensions-4.0.1-py3-none-any.whl (22 kB)
Installing collected packages: zipp, typing-extensions, importlib-metadata, platformdirs, six, backports.entry-points-selectable, filelock, distlib, virtualenv
Successfully installed backports.entry-points-selectable-1.1.1 distlib-0.3.4 filelock-3.4.0 importlib-metadata-4.10.0 platformdirs-2.4.0 six-1.16.0 typing-extensions-4.0.1 virtualenv-20.10.0 zipp-3.6.0
WARNING: You are using pip version 20.1.1; however, version 21.3.1 is available.
You should consider upgrading via the 'c:\users\admin\desktop\ruhi\scripts\python.exe -m pip install --upgrade pip' command.

(ruhi) C:\Users\admin\Desktop>
```

```
(ruhi) C:\Users\admin\Desktop>pip install virtualenvwrapper
Collecting virtualenvwrapper
  Downloading virtualenvwrapper-4.8.4.tar.gz (334 kB)
     |████████████████████████████████| 334 kB 204 kB/s
Requirement already satisfied: virtualenv in c:\users\admin\desktop\ruhi\lib\site-packages (from virtualenvwrapper) (20.10.0)
Collecting virtualenv-clone
  Downloading virtualenv_clone-0.5.7-py3-none-any.whl (6.6 kB)
Collecting stevedore
  Downloading stevedore-3.5.0-py3-none-any.whl (49 kB)
     |████████████████████████████████| 49 kB 931 kB/s
Requirement already satisfied: backports.entry-points-selectable>=1.0.4 in c:\users\admin\desktop\ruhi\lib\site-packages (from virtualenv->virtualenvwrapper) (1.1.1)
Requirement already satisfied: importlib-metadata>=0.12; python_version < "3.8" in c:\users\admin\desktop\ruhi\lib\site-packages (from virtualenv->virtualenvwrapper) (4.10.0)
Requirement already satisfied: filelock<4,>=3.2 in c:\users\admin\desktop\ruhi\lib\site-packages (from virtualenv->virtualenvwrapper) (3.4.0)
Requirement already satisfied: six<2,>=1.9.0 in c:\users\admin\desktop\ruhi\lib\site-packages (from virtualenv->virtualenvwrapper) (1.16.0)
Requirement already satisfied: platformdirs<3,>=2 in c:\users\admin\desktop\ruhi\lib\site-packages (from virtualenv->virtualenvwrapper) (2.4.0)
Requirement already satisfied: distlib<1,>=0.3.1 in c:\users\admin\desktop\ruhi\lib\site-packages (from virtualenv->virtualenvwrapper) (0.3.4)
Collecting pbr!=2.1.0,>=2.0.0
  Using cached pbr-5.8.0-py2.py3-none-any.whl (112 kB)
Requirement already satisfied: zipp>=0.5 in c:\users\admin\desktop\ruhi\lib\site-packages (from importlib-metadata>=0.12; python_version < "3.8"->virtualenv->virtualenvwrapper) (3.6.0)
Requirement already satisfied: typing-extensions>=3.6.4; python_version < "3.8" in c:\users\admin\desktop\ruhi\lib\site-packages (from importlib-metadata>=0.12; python_version < "3.8"->virtualenv->virtualenvwrapper) (4.0.1)
Using legacy setup.py install for virtualenvwrapper, since package 'wheel' is not installed.
Installing collected packages: virtualenv-clone, pbr, stevedore, virtualenvwrapper
    Running setup.py install for virtualenvwrapper ... done
Successfully installed pbr-5.8.0 stevedore-3.5.0 virtualenv-clone-0.5.7 virtualenvwrapper-4.8.4
WARNING: You are using pip version 20.1.1; however, version 21.3.1 is available.
You should consider upgrading via the 'c:\users\admin\desktop\ruhi\scripts\python.exe -m pip install --upgrade pip' command.

(ruhi) C:\Users\admin\Desktop>
```

Activate Windows
Go to Settings to activate Windows.

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```
(ruhi) C:\Users\admin\Desktop>deactivate
C:\Users\admin\Desktop>pip install virtualenvwrapper-win
Collecting virtualenvwrapper-win
  Downloading virtualenvwrapper-win-1.2.6.tar.gz (21 kB)
Collecting virtualenv
  Using cached virtualenv-20.10.0-py2.py3-none-any.whl (5.6 MB)
Collecting distlib<1,>=0.3.1
  Using cached distlib-0.3.4-py2.py3-none-any.whl (461 kB)
Collecting backports.entry-points-selectable>=1.0.4
  Using cached backports.entry_points_selectable-1.1.1-py2.py3-none-any.whl (6.2 kB)
Collecting six<2,>=1.9.0
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting importlib-metadata>=0.12; python_version < "3.8"
  Using cached importlib_metadata-4.10.0-py3-none-any.whl (17 kB)
Collecting platformdirs<3,>=2
  Using cached platformdirs-2.4.0-py3-none-any.whl (14 kB)
Collecting filelock<4,>=3.2
  Using cached filelock-3.4.0-py3-none-any.whl (9.8 kB)
Collecting zipp>=0.5
  Using cached zipp-3.6.0-py3-none-any.whl (5.3 kB)
Collecting typing-extensions>=3.6.4; python_version < "3.8"
  Using cached typing_extensions-4.0.1-py3-none-any.whl (22 kB)
Using legacy setup.py install for virtualenvwrapper-win, since package 'wheel' is not installed.
Installing collected packages: distlib, zipp, typing-extensions, importlib-metadata, backports.entry-points-selectable, six, platformdirs, filelock, virtualenv, virtualenvwrapper-win
    Running setup.py install for virtualenvwrapper-win ... done
Successfully installed backports.entry-points-selectable-1.1.1 distlib-0.3.4 filelock-3.4.0 importlib-metadata-4.10.0 platformdirs-2.4.0 six-1.16.0 typing-extensions-4.0.1 virtualenv-20.10.0 virtua
lenvwrapper-win-1.2.6 zipp-3.6.0
```

```
C:\Users\admin\Desktop>mkvirtualenv 123
 C:\Users\admin\Envs is not a directory, creating
created virtual environment CPython3.7.9.final.0-64 in 10212ms
  creator CPython3Windows(dest=C:\Users\admin\Envs\123, 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\admin\AppData\Local\pypa\virtualenv)
    added seed packages: pip==21.3.1, setuptools==58.3.0, wheel==0.37.0
  activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonActivator

((123) ) C:\Users\admin\Desktop>lsvirtualenv

dir /b /ad "C:\Users\admin\Envs"
========================================================================
123

((123) ) C:\Users\admin\Desktop>python test.py
The sum is:  30
```

Download PyCharm

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Build: 213.5744.248
1 December 2021

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System requirements

Installation instructions

Other versions

Third-party software

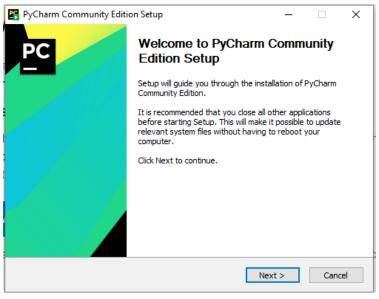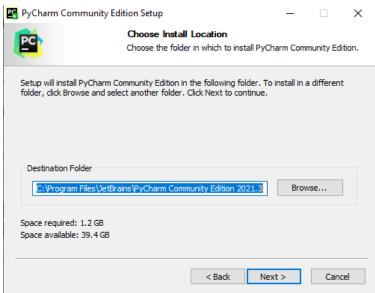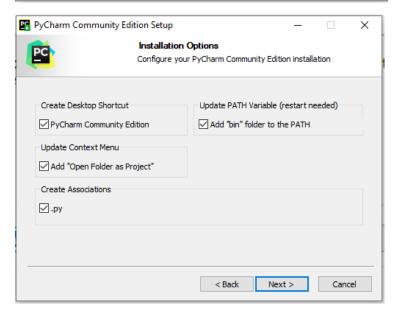Get the Toolbox App to download PyCharm and its future updates with ease
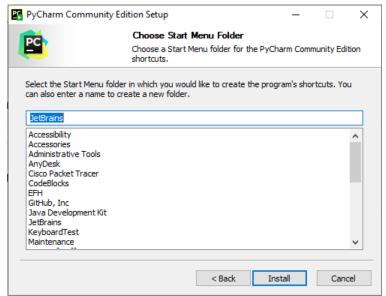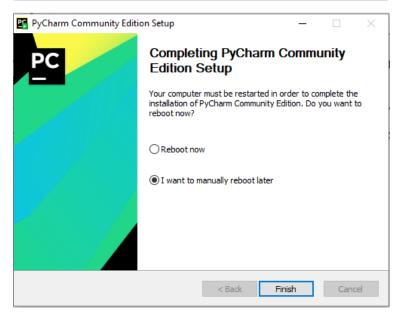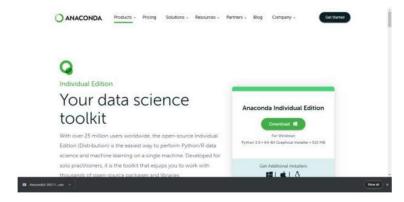
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