learn-python

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1 Python Basics

1.1 Run Python App

Run Python file and continue file in scripting space

```
$ python -i <file_name>.py
---- ex ----
D:\learn\learn-python\doc>python -i main.py
code output: 21
>>> i
21
>>> i**2
441
>>> exit()
```

Save app output as a .txt file in cmd

```
$ Python <app_name> > <output_file_name>.txt
---- ex ----
D:\learn\learn-python\doc>python main.py > output.txt
D:\learn\learn-python\doc>more output.txt
code output: 21
```



Pay attention to Python's operator priority!

```
>>> 3 + 5 % 4 == 0
False
>>> (3 + 5) % 4 == 0
True
```

1.2 Python Virtual Environment

Create - Activate - Deactivate in cmd

```
-- create
$ python -m venv <virtual_environment_name>

-- activate
$ <virtual_environment_name>\Scripts\activate.bat

-- deactivate
$ deactivate
---- ex -----
```

```
D:\dir/b
code
learn
library
D:\python -m venv prjenv
D:\dir/b
code
learn
library
prjenv
D:\prjenv\Scripts\activate
(prjenv) D:\pip install lightweight
Collecting lightweight
 Downloading lightweight-1.0.0.dev52-py3-none-any.whl (256 kB)
    ----- 256.9/256.9 KB 450.9 kB/s eta 0:00:00
(prjenv) D:\pip freeze
MarkupSafe==2.1.2
mistune==0.8.4
. . .
(prjenv) D:\deactivate
D:\
```

Python Root packages usual path in windows

>_

See all installed packages in current python environment

```
$ pip freeze
---- ex -----
C:\Users\User>pip freeze
contourpy==1.0.7
cycler==0.11.0
fonttools==4.38.0
```

>_

Save all package names in requirements.txt

```
$ pip freeze > requirements.txt
---- ex -----
C:\Users\User>pip freeze > requirements.txt
C:\Users\User>more requirements.txt
```

```
contourpy==1.0.7
cycler==0.11.0
fonttools==4.38.0
```

>_

Delete Packages

```
-- first save all package names in "requirements.txt"

-- one by one
$ pip uninstall -r requirements.txt

-- all
$ pip uninstall -r requirements.txt -y

---- ex -----
C:\Users\User>pip freeze
contourpy==1.0.7
cycler==0.11.0
fonttools==4.38.0

C:\Users\User>pip freeze > requirements.txt

C:\Users\User>pip freeze

C:\Users\User>pip freeze
```

2 Python Packages