

# Python Programming

배포



권기웅



# 1. 배포할 것 준비

## 1.1 Lotto.py

```
Lotto.py - D:/workspacePython/Lotto.py (3.6.3)
File Edit Format Run Options Window Help

import random

class Lotto:
    def pick():
        lotto = random.sample(range(1, 46), 6)
        lotto.sort()
        return lotto
```

## 1.2 LottoMain.py

```
LottoMain.py - D:/workspacePython/LottoMain.py (3.6.3)
File Edit Format Run Options Window Help

import Lotto

print(Lotto.Lotto.pick())
```

## 1.3 테스트

```
Python 3.6.3 Shell
File Edit Shell Debug Options Window Help

Python 3.6.3 (v3.6.3:2c5f81e1, Oct 8 2016, 14:59:14) [AMD64]
Type "copyright", "credits()" or "help()" to get more help
>>>
===== RESTART: Interactive Shell =====
[21, 22, 23, 34, 37, 43]
>>> |
```



## 2. setup.py

### 2.1 setup.py 작성

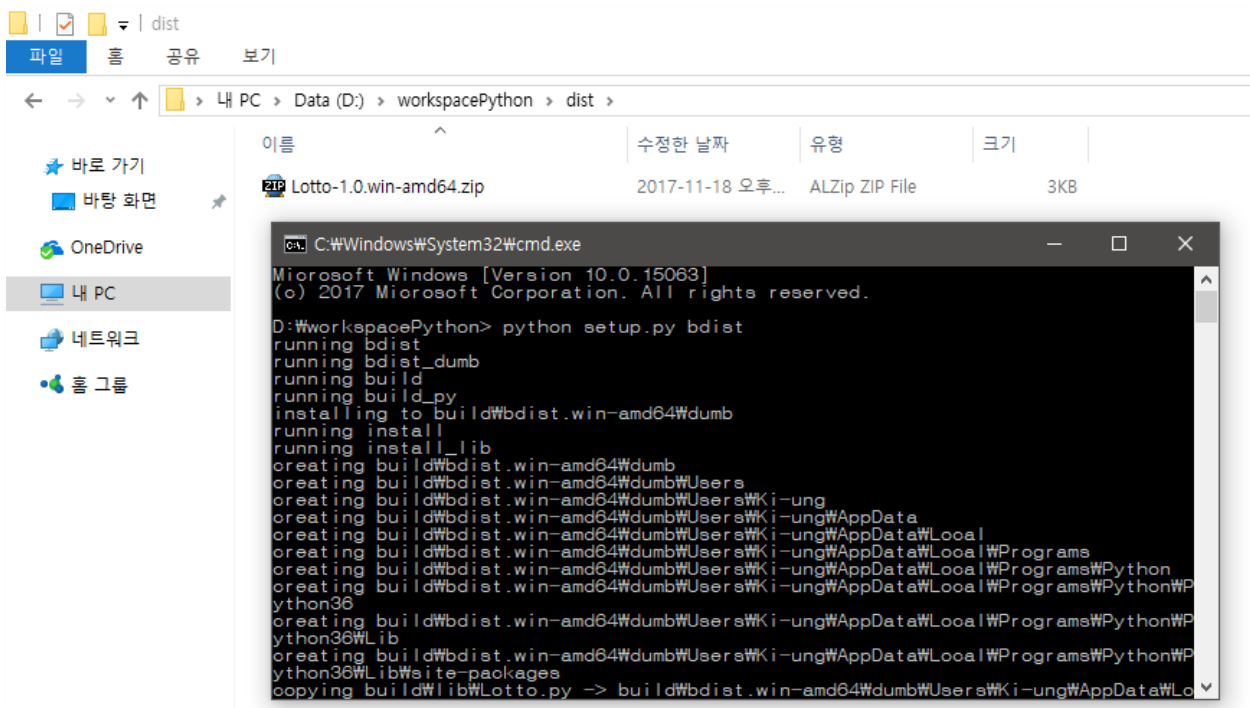
```
setup.py - D:/workspacePython/setup.py (3.6.3)
File Edit Format Run Options Window Help

from distutils.core import setup

setup(name="Lotto", version="1.0", py_modules=["Lotto", "LottoMain"])
# 관련있는 모듈들(확장자 빼고)
```

### 2.2 압축파일 만들기

명령프롬프트에서 `python setup.py bdist`



The screenshot shows a Windows File Explorer window with the address bar set to `D:\workspacePython\dist`. The file list contains one item: `Lotto-1.0.win-amd64.zip`, which is a 3KB ALZip ZIP File created on 2017-11-18. An inset window shows the command prompt output for `python setup.py bdist`, detailing the build process for a Windows executable.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

D:\workspacePython> python setup.py bdist
running bdist
running bdist_dumb
running build
running build_py
installing to build\bdist.win-amd64\dumb
running install
running install_lib
creating build\bdist.win-amd64\dumb
creating build\bdist.win-amd64\dumb\Users
creating build\bdist.win-amd64\dumb\Users\Ki-ung
creating build\bdist.win-amd64\dumb\Users\Ki-ung\AppData
creating build\bdist.win-amd64\dumb\Users\Ki-ung\AppData\Local
creating build\bdist.win-amd64\dumb\Users\Ki-ung\AppData\Local\Programs
creating build\bdist.win-amd64\dumb\Users\Ki-ung\AppData\Local\Programs\Python
creating build\bdist.win-amd64\dumb\Users\Ki-ung\AppData\Local\Programs\Python\
python36
creating build\bdist.win-amd64\dumb\Users\Ki-ung\AppData\Local\Programs\Python\
python36\Lib
creating build\bdist.win-amd64\dumb\Users\Ki-ung\AppData\Local\Programs\Python\
python36\Lib\site-packages
copying build\lib\Lotto.py -> build\bdist.win-amd64\dumb\Users\Ki-ung\AppData\Lo
```



## 2.3 설치파일 만들기

명령프롬프트에서 `python setup.py bdist_wininst`

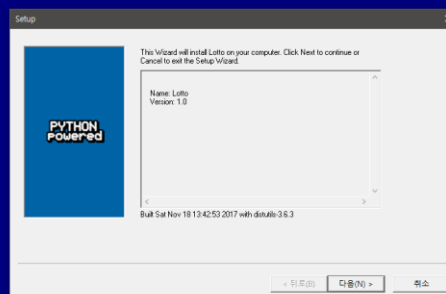
The screenshot shows a Windows File Explorer window with the address bar set to `D:\workspacePython\dist`. The left sidebar shows the '내 PC' (This PC) view. A terminal window titled 'C:\Windows\System32\cmd.exe' is open, displaying the following command and output:

```
D:\workspacePython> python setup.py bdist_wininst
running bdist_wininst
running build
running build_py
installing to build\bdist.win-amd64\wininst
running install_lib
creating build\bdist.win-amd64\wininst
creating build\bdist.win-amd64\wininst\PURELIB
copying build\lib\Lotto.py -> build\bdist.win-amd64\wininst\PURELIB
copying build\lib\LottoMain.py -> build\bdist.win-amd64\wininst\PURELIB
running install_egg_info
Writing build\bdist.win-amd64\wininst\PURELIB\Lotto-1.0-py3.6.egg-info
creating 'C:\Users\Ki-ung\AppData\Local\Temp\tmp29j5u3i7.zip' and adding '.' to it
adding 'PURELIB\Lotto-1.0-py3.6.egg-info'
adding 'PURELIB\Lotto.py'
adding 'PURELIB\LottoMain.py'
removing 'build\bdist.win-amd64\wininst' (and everything under it)

D:\workspacePython>
```

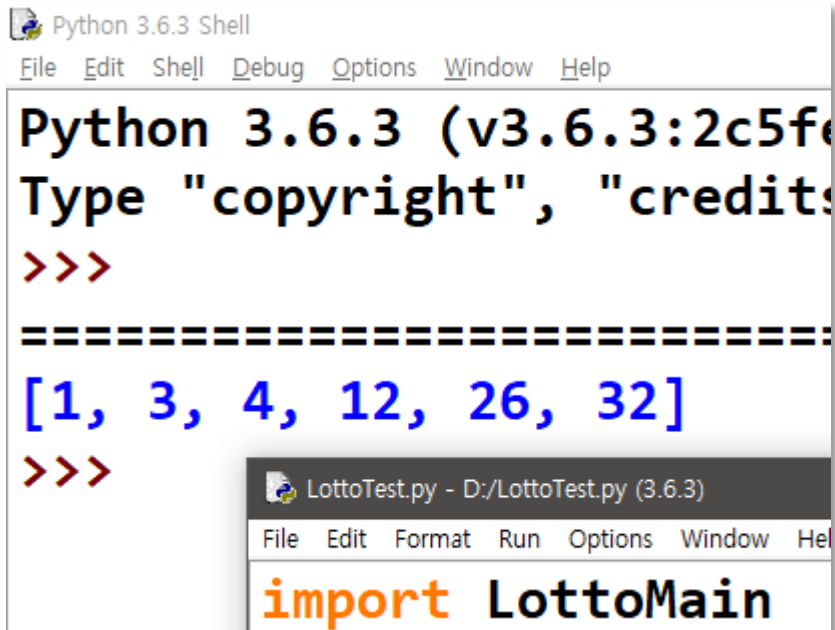
Setup: Lotto-1.0

# Lotto-1.0



## 3. 사용

### 3.1 내장 모듈처럼 사용



The screenshot shows a Python 3.6.3 Shell window with the following text:

```
Python 3.6.3 (v3.6.3:2c5fe06c9, Oct 3 2016, 14:58:46) [AMD64]
Type "copyright", "credits()" or "help()" to get more help.
>>>
=====
[1, 3, 4, 12, 26, 32]
>>>
```

Overlaid on the shell window is a smaller window titled "LottoTest.py - D:/LottoTest.py (3.6.3)". This window contains the code:

```
import LottoMain
```

