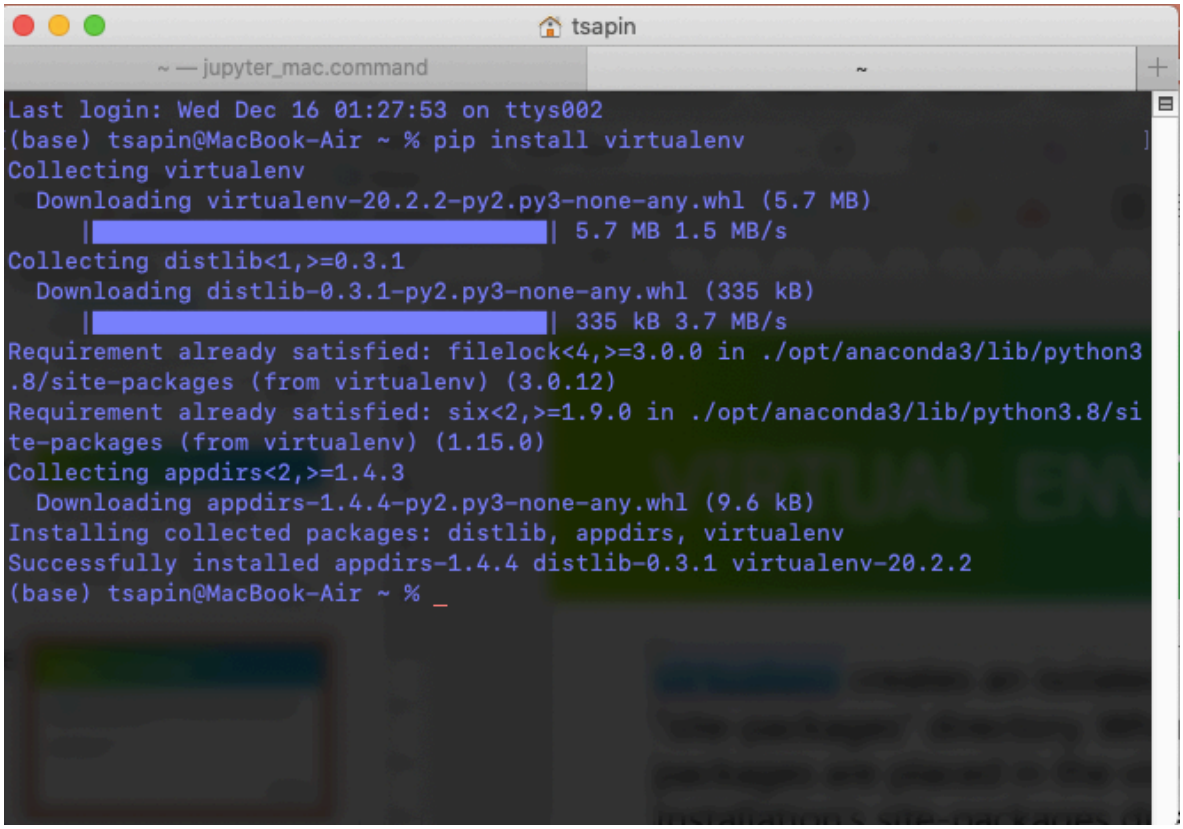
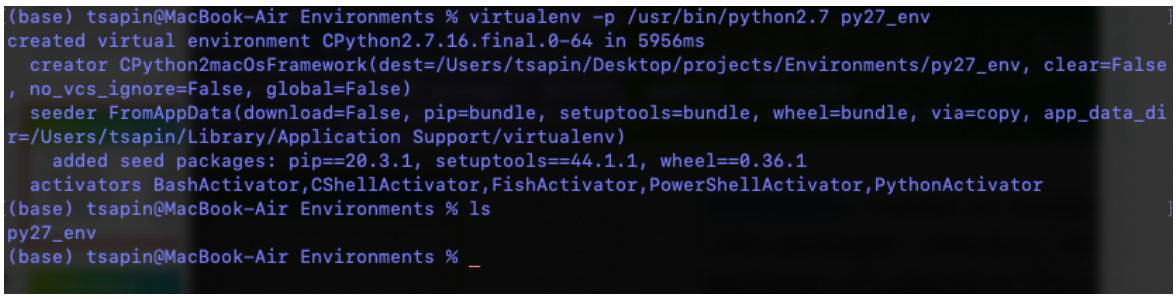
Python Core, SoftServe
Home Work 1, Task 4 | Oleksandr Tsapin

Install virtual environment. Install Python 2.7 within virtual environment. Complete Task 1, Task 2 and Task 3 using appropriable syntax.

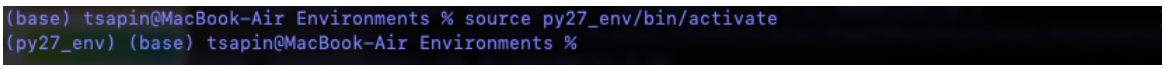
Step 1. Instal virtualenv.



Step 2. Create virtual environment specifying version of Python, and name it «py27_en».



Step 3. Activate virtual environment.



Check the version of the Python we are using.

```
(py27_env) (base) tsapin@MacBook-Air Environments % which python
/Users/tsapin/Desktop/projects/Environments/py27_env/bin/python
(py27_env) (base) tsapin@MacBook-Air Environments % python --version
Python 2.7.16
(py27_env) (base) tsapin@MacBook-Air Environments %
```

Step 4. Modify slightly the code to run in Python 2.7. Run all the tasks.

Task 1
Code

```
a = 5
b = 10
print "a = {}; b = {}".format(a,b)
print "a + b =", a + b
print "a - b =", a - b
print "a * b =", a * b
print "a / b =", float(a) / float(b)
```

Output

```
(py27_env) (base) tsapin@MacBook-Air HW % python task1_py27.py
a = 5; b = 10
a + b = 15
a - b = -5
a * b = 50
a / b = 0.5
```

Task 2
Code

```
name = raw_input("What is your name? ")
age = raw_input("How old are you? ")
residence = raw_input("Where do you live? ")
print "Hello ", name
print "Your age is ", age
print "You live in ", residence
```

Output

```
(py27_env) (base) tsapin@MacBook-Air HW % python task2_py27.py
What is your name? Sashko
How old are you? 34
Where do you live? Kyiv
Hello  Sashko
Your age is  34
You live in  Kyiv
```

Task 3
Code

```
print """
                    *
                *     *     *
            *    *    *    *
              *   *   *   *    *
              |  *  *  *  *  *
            *               *
          *                   *
        *                       *
      *                           *
     *           **   **           *
    *            **   **            *
    *            **   **            *       *      *
    *     *      **   **       *     *       *      *
    *      *                  *      *       *  **  *
     *      *                *      *        *****  *
      *       *            *       *          *   **
       *         *  ___  *         *             *
         *                      *              *
           *                 *                *
             *  *  *  *                    *
                  *                       *
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              *****  *  ********************
            *      * _ *
           *       * _ *


      """
```
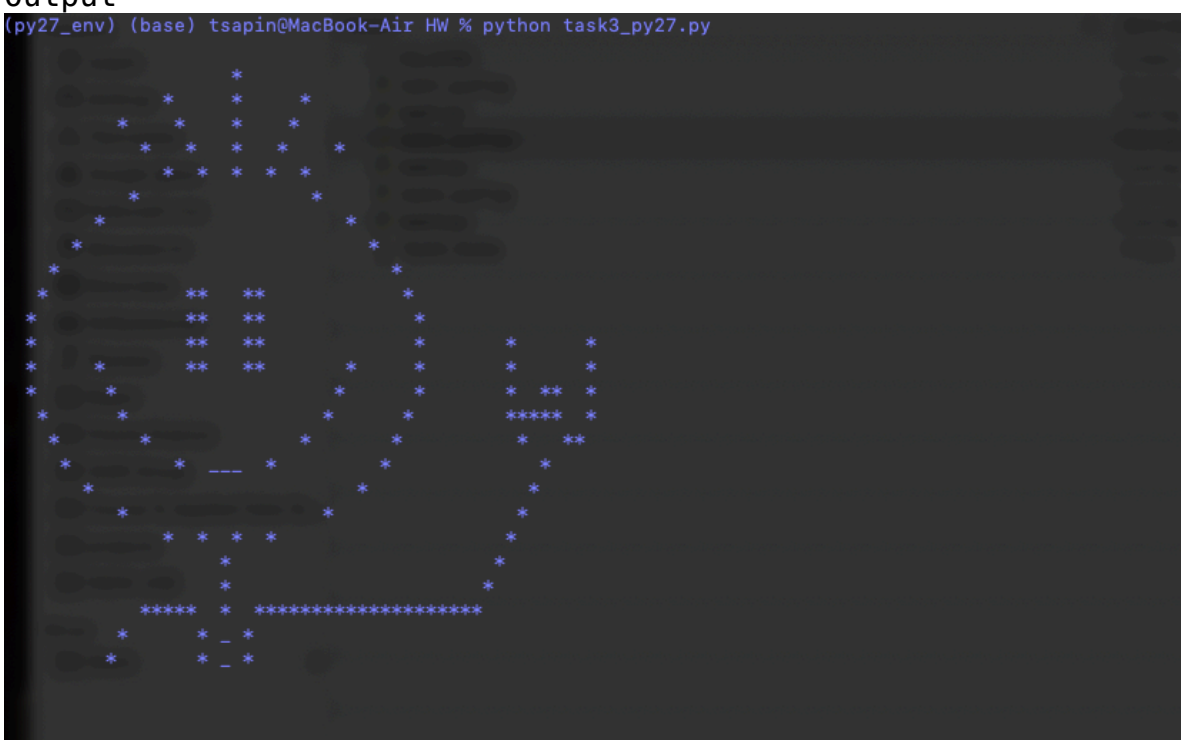

Output

```
(py27_env) (base) tsapin@MacBook-Air HW % python task3_py27.py
```