**Python Virtual Environment**

**Verify Whether Python is installed**

|  |  |
| --- | --- |
| C:\> python --version |  |

**Verify Whether pip is installed**

|  |  |
| --- | --- |
| C:\> pip --version |  |

**Python Virtual Environment**

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| --- | --- |
| **Windows** | **Linux** |
| **1. Install virtualenv** |  |
| > pip install virtualenv | $ sudo apt-get install python-virtualenv  $ sudo easy\_install virtualenv  $ sudo pip install virtualenv |
| **2. Test virtualenv version** |  |
| > virtualenv --version | > virtualenv --version |
| **3. Create Python Virtual Environment** |  |
| > python –m virtualenv pythonds |  |
| **4. Activating Python Virtual Environment** |  |
| > cd pythonds  > \pythonds\scripts\activate  (pythonds) c:\> |  |
| **5. Deactivating Python Virtual Environment** |  |
| (pythonds) c:\> pythonds\scripts\deactivate  C:\> |  |

**Checking which Python is in use**

|  |  |
| --- | --- |
| C:\> where python | $ which python |

**Checking Packages installed on Python Virtual Environment**

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| --- | --- |
| C:\> pip freeze |  |

**Upgrading pip**

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| --- | --- |
| C:\> python -m pip install --upgrade pip  (pythonds) C:\> python -m pip install --upgrade pip |  |

**Database Programming with Python**

**Install PyMySQL**

(pythonds) c:\pythonproj\dbproj> pip install PyMySQL

(pythonds) c:\pythonproj\dbproj> pip freeze