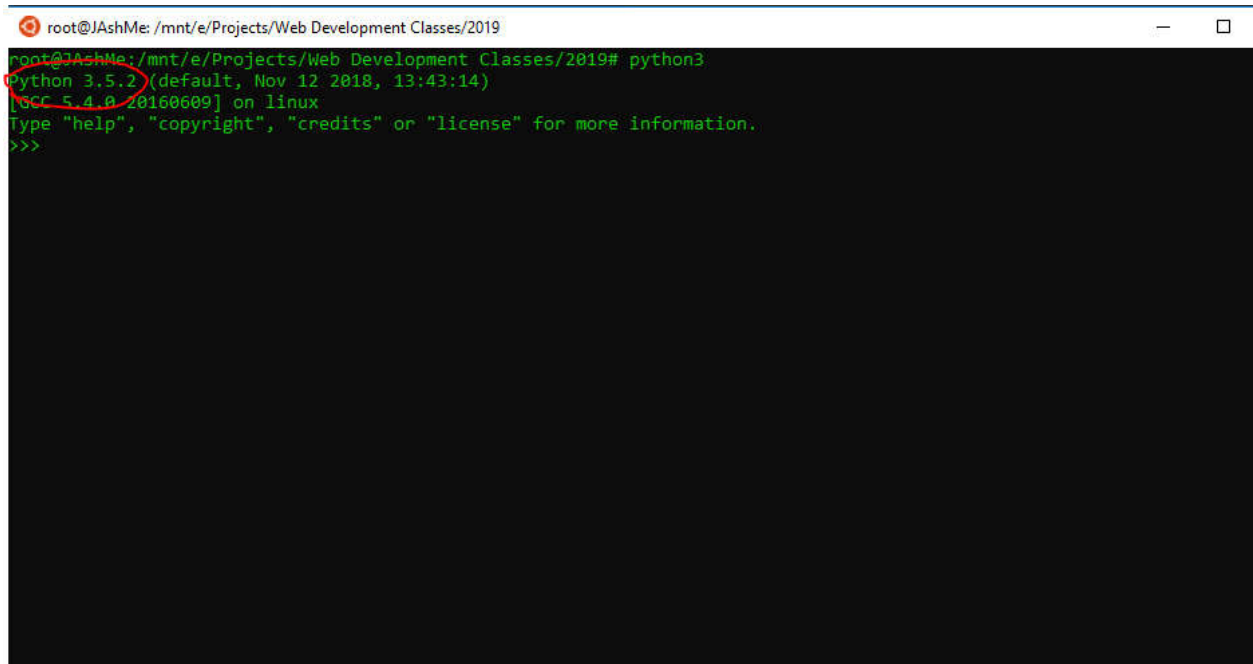


Steps to Install Django on Linux System

• Step 1: Check if Python3 Present

- Open Terminal
- Type in following command :
`python3`
- Press Enter
- If you get
`not command found`
then python3 is not installed.
- If it runs, following kind of output should be there:



```
root@JashMe: /mnt/e/Projects/Web Development Classes/2019# python3
Python 3.5.2 (default, Nov 12 2018, 13:43:14)
[GCC 5.4.0 20160609] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

- Check the version which is displayed in the region marked in above image.
- If its 3.x then Python3 is installed :). **You can skip Step 2 .**
- For all other cases execute Step 2.

• Step 2: Download and Install Python3

- Execute following command:
`$vi /etc/apt/apt.conf`
- Write down following lines in the file:
`Acquire::http::Proxy "http://edcguest:edcguest@172.31.100.29:3128";`
`Acquire::https::Proxy "http://edcguest:edcguest@172.31.100.29:3128";`
`Acquire::socks::Proxy "http://edcguest:edcguest@172.31.100.29:3128";`

```
root@JASHMe: /mnt/e/Projects/Web Development Classes/2019
Acquire::http::Proxy "http://edcguest:edcguest@172.31.100.29:3128";
Acquire::https::Proxy "http://edcguest:edcguest@172.31.100.29:3128";
Acquire::socks::Proxy "http://edcguest:edcguest@172.31.100.29:3128";

"/etc/apt/apt.conf" 3L, 206C
```

- o Save the file and Exit.
- o Then install python3 by typing:
`$sudo apt-get install python3`
- o Verify the installation by executing Step 1.

- **Step 3: Create A Virtual Environment and Enter it**

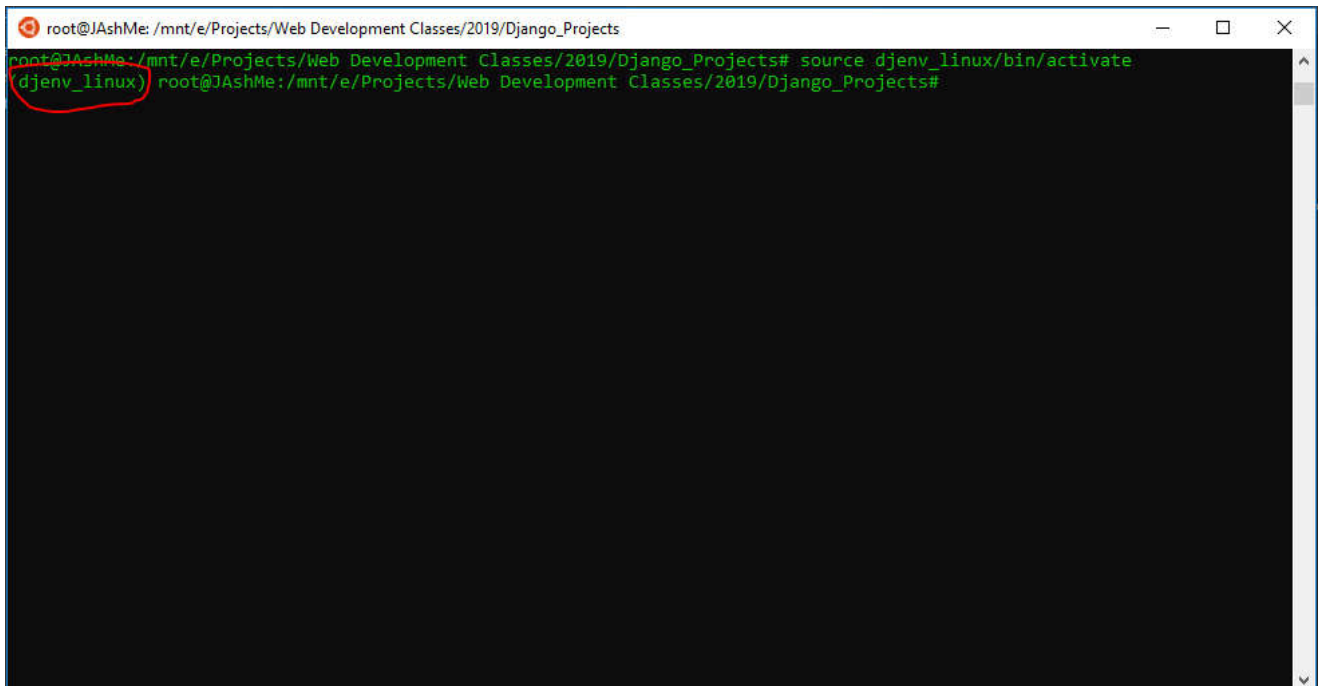
- Open terminal and make a new folder at desired location and name it as 'Django_Projects'
- Move inside that Folder
- Execute Following Commands:

```
$sudo apt-get install python3-venv
```



```
$python3 -m venv djenv
```
- This will create a directory named 'djenv' which is the new environment created
- Then Execute:

```
$source djenv/bin/activate
```
- You should see environment name besides the command line as shown below:

A terminal window titled 'root@JashMe: /mnt/e/Projects/Web Development Classes/2019/Django_Projects'. The prompt is 'root@JashMe: /mnt/e/Projects/Web Development Classes/2019/Django_Projects#'. The user enters the command 'source djenv_linux/bin/activate'. The prompt changes to '(djenv_linux) root@JashMe: /mnt/e/Projects/Web Development Classes/2019/Django_Projects#'. The text '(djenv_linux)' is circled in red.

```
root@JashMe: /mnt/e/Projects/Web Development Classes/2019/Django_Projects# source djenv_linux/bin/activate
(djenv_linux) root@JashMe: /mnt/e/Projects/Web Development Classes/2019/Django_Projects#
```

- This means you have entered into the environment.

- **Step 4: Set up Proxy in Terminal**

- Enter the following Commands:

```
export HTTP_PROXY=http://edcguest:edcguest@172.31.100.29:3128
export HTTPS_PROXY=$HTTP_PROXY
```
- You can check the proxy set by following command:

```
echo $HTTPS_PROXY
```

- **Step 5: Downloading and Installing Django**

- Enter the following command(in the same environment ie: djenv):

```
$pip install --upgrade pip
$pip install django
```
- It will download and install the necessary files.
- You can verify the installation by typing following command:

```
python
>>import django
>>django.VERSION
```

```
root@JashMe: /mnt/e/Projects/Web_Dev_Classes/2019/Django_Projects
(djenv_linux) root@JashMe:/mnt/e/Projects/Web_Dev_Classes/2019/Django_Projects# pip install django
Collecting django
  Downloading https://files.pythonhosted.org/packages/36/50/078a42b4e9bedb94efd3e0278c0eb71650ed9672cdc91bd5542953bec17f/Dj
  100% |████████████████████████████████████████| 7.3MB 102kB/s
Collecting pytz (from django)
  Downloading https://files.pythonhosted.org/packages/61/28/1d3920e4d1d50b19bc5d24398a7cd85cc7b9a75a490570d5a30c57622d34/py
  100% |████████████████████████████████████████| 512kB 110kB/s
Installing collected packages: pytz, django
Successfully installed django-2.1.5 pytz-2018.9
You are using pip version 8.1.1, however version 19.0.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
(djenv_linux) root@JashMe:/mnt/e/Projects/Web_Dev_Classes/2019/Django_Projects# pip install --upgrade pip
Collecting pip
  Downloading https://files.pythonhosted.org/packages/46/dc/7fd5df840efb3e56c8b4f768793a237ec4ee59891959d6a215d63f727023/pl
  100% |████████████████████████████████████████| 1.4MB 130kB/s
Installing collected packages: pip
  Found existing installation: pip 8.1.1
  Uninstalling pip-8.1.1:
    Successfully uninstalled pip-8.1.1
  Successfully installed pip-19.0.1
(djenv_linux) root@JashMe:/mnt/e/Projects/Web_Dev_Classes/2019/Django_Projects# python
Python 3.5.2 (default, Nov 12 2018, 13:43:14)
[GCC 5.4.0 20160609] on linux
Type "help", "copyright", "credits" or "license()" for more information.
>>> import django
>>> django.VERSION
(2, 1, 5, 'final', 0)
>>>
```

- If output matches with given kind of output, then django is installed properly :).