**Install Python on ubuntu:**

1. Start by updating the packages list and installing the prerequisites:

$ sudo apt update

$ sudo apt install software-properties-common

2. Next, add the deadsnakes PPA to your sources list:

**$ sudo add-apt-repository ppa:deadsnakes/ppa**

3. Once the repository is enabled, install Python 3.7 with:

**$ sudo apt install python3.7**

**4. At this point, Python 3.7 is installed on your Ubuntu system and ready to be used. You can verify it by typing:**

**$ python3.7 --version**

5.Install pip

**$ sudo apt install python3-pip**

**$ python3 -m pip --version**

6.Ceating a virtual environment

Here,we will install flask in a virtual environment. There are a number of advantages of working in a virtual environment -

1. Firstly, we can set different configurations for each virtual environment. The packages installed in the virtual environment are not accessible outside it. It guarantees there are no conflicts with the global interpreter.
2. To install new packages, virtual environments don’t require root privileges.

**start by creating a virtual environment :**

**$ sudo apt-get install python3-virtualenv or**

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

**check if virtualenv is correctly installed:**

**$ python3 -m virtualenv --version**

Now let’s make a directory **flask-application** where we will store our project.

**$ mkdir flask-app**

**$ cd flask-app**

It’s time to create to virtual environment **flask-env**, where we will install flask.

**$ python3 -m virtualenv flask-env or**

**$ python3 -m venv flask-env**

**We have successfully created our virtual environment, now let’s activate it using the command below :**

**$ source flask-env/bin/activate**

You will now notice that on left side of your command prompt, **(flask-env)**appears.

**So now, when you install a package, it will only be accessible from the virtual environment.**

**When you exit the virtual environment, you can no longer access any package you install inside the virtual environment.**

**It is time to install flask. We will use pip to install the package -**

7. install flask.

**$ pip3 install Flask**

**$ python3 -m flask --version**

Let’s write **app.py** script which prints “Hello World!” when we open <http://localhost:5000/> in the browser :

**app.py**

from flask import Flask

app = Flask(\_\_name\_\_)

@app.route("/")

def hello():

return "Hello World!"

if (\_\_name\_\_ == "\_\_main\_\_"):

app.run(port = 5000)

8. To deactivate the virtual environment, type the below line in the command prompt :

**$ deactivate**

**References:**[**https://linuxize.com/post/how-to-install-python-3-7-on-ubuntu-18-04/**](https://linuxize.com/post/how-to-install-python-3-7-on-ubuntu-18-04/)

[**https://askubuntu.com/questions/320996/how-to-make-python-program-command-execute-python-3**](https://askubuntu.com/questions/320996/how-to-make-python-program-command-execute-python-3)

[**http://hanzratech.in/2015/01/16/setting-up-flask-in-ubuntu-14-04-in-virtual-environment.html**](http://hanzratech.in/2015/01/16/setting-up-flask-in-ubuntu-14-04-in-virtual-environment.html)