# Steps to install Qiskit

### Requirment:

Ubuntu >16.04 Python >3.6 Anaconda Pip

#### **Step 1: Create conda environment:**

Conda create -n <Name of your environment> python=<your\_version> Eg: conda create -n qenv python=3.11

```
(base) cdac1@cdac1:~$ conda create -n qenv python=3.11
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
    current version: 23.7.4
    latest version: 23.11.0

Please update conda by running</pre>
```

## Step 2: Install Qiskit

conda activate <Name of your environment> Eg: conda activate genv

```
Downloading and Extracting Packages

Preparing transaction: done

Verifying transaction: done

Executing transaction: done

#

# To activate this environment, use

#

# $ conda activate qenv

#

# To deactivate an active environment, use

#

# $ conda deactivate

(base) cdac1@cdac1:-$ conda activate qenv

(qenv) cdac1@cdac1:-$
```

#### pip install qiskit

```
(base) cdac1@cdac1:~$ conda activate genv
(genv) cdac1@cdac1:~$ pip install giskit
Collecting giskit
 Using cached qiskit-0.45.1-py3-none-any.whl.metadata (12 kB)
Collecting qiskit-terra==0.45.1 (from qiskit)
 Using cached giskit terra-0.45.1-cp38-abi3-manylinux 2 17 x86 64.manylinux2014
x86 64.whl.metadata (12 kB)
Collecting rustworkx>=0.13.0 (from qiskit-terra==0.45.1->qiskit)
 Using cached rustworkx-0.13.2-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_
(86 64.whl.metadata (10 kB)
Collecting numpy<2,>=1.17 (from qiskit-terra==0.45.1->qiskit)
Using cached numpy-1.26.2-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86
4.whl.metadata (61 kB)
Collecting ply>=3.10 (from qiskit-terra==0.45.1->qiskit)
 Using cached ply-3.11-py2.py3-none-any.whl (49 kB)
Collecting psutil>=5 (from qiskit-terra==0.45.1->qiskit)
Using cached psutil-5.9.7-cp36-abi3-manylinux 2 12 x86 64.manylinux2010 x86 64
```

## Step 3: Install Qiskit-Aer

Required to simulate quantum circuits and explore the behaviour of quantum algorithms in a simulated environment.

pip3 install qiskit-aer