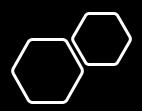


Topics

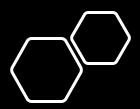
- Qiskit
- Control Gates
- Circuit Design



Qiskit

Resources

- Qiskit Documentation
 - https://qiskit.org/documentation/
- Qiskit Textbook
 - https://qiskit.org/textbook/preface.ht ml
- Qiskit YouTube Channel
 - https://www.youtube.com/channel/U ClBNq7mCMf5xm8baE_VMl3A



Control Gates

A control can be paired with almost all the single qubit gates present in QC.

Just like cx and ccx, we can have

- cy,ccy
- CZ, CCZ
- ch, cch

and many more.



Quantum Circuit

- Importing required Packages.
- Number of Qubits and classical bits.
- Make a Quantum Circuit
- Implementing required gates for the circuit.
- Putting measurement gates at the end of the circuit.
- Choosing Backend and no. of shots
- Executing the circuit
- Retrieving the Counts