Quantum Computing SOC

Syntax:-

<https://colab.research.google.com/drive/1gRdQr-cK8LO5BXK5twzxkCSCiSzxHFFY>

Gates:-

<https://learning.quantum.ibm.com/tutorial/explore-gates-and-circuits-with-the-quantum-composer#classical-gates>

To construct a circuit:-

<https://docs.quantum.ibm.com/build/circuit-construction>

Density matrix:-

<https://github.com/Qiskit/textbook/blob/main/notebooks/quantum-hardware/density-matrix.ipynb>

Phase Kickback:-

<https://github.com/Qiskit/textbook/blob/main/notebooks/ch-gates/phase-kickback.ipynb>

Algorithms:-

<https://qiskit.org/learn/course/quantum-protocols-and-quantum-algorithms/>

Error Correction:-

<https://youtu.be/ltJ1jXQeDl8?si=082QozJS2YF_1ECH>

<https://arthurpesah.me/blog/2022-01-25-intro-qec-1/>

<https://github.com/Harshanand7/QEC-last_phase>