

Assignment # 2 (due on 14th Nov 2025) (will count for 6% of the total)

Develop the following quantum algorithms with coding and implementation:

1. Quantum teleportation
2. Superdense coding
3. Deutsch algorithm

Try running the IBM Qiskit codes available on IBM Quantum. Write a short report on the algorithms which should include the input (or state/circuit preparation needed), the running/working codes, any modifications you had made or had to make, output results and a short discussion or interpretation of the results.

A demo of the working codes will be required for assessment of the work. The working codes should be made available for evaluation in the lecture on Fri 14th Nov 2025 followed by submission on Blackboard.