Assignment 1

Introduction to Quantum Computing: From Fundamentals to Quantum Algorithms

June 22, 2025

Objective

This assignment is designed to help consolidate your understanding of the material covered in the first two weeks of project, up to and including the topic of Superdense Coding.

Instructions

1. Prepare a **handwritten summary** (maximum 5 pages) of the content covered in week 1 and 2.

2. Focus on the key concepts discussed in the lectures and slides provided, up to Superdense Coding.

3. The goal is to assess your conceptual clarity and effort, not your use of technical jargon or complex language.

4. Your summary **must be written in your own words**. Please avoid using AI tools or copying directly from reference material.

5. Bonus points will be given for using your own analogies, interpretations, or examples to explain the concepts — this is encouraged but not mandatory.

Submission Guidelines

- Scan your handwritten summary clearly and submit it in PDF format.

- Filename format: `Assignment 1_your name(roll number).pdf`

- Submission link and deadline will be posted on the group.

Note: This is not a graded assignment. The purpose is to reflect on your understanding and help me gauge where further discussion may be needed.