## **GNSS**

**Imports**: The necessary libraries for simulation (NumPy, Matplotlib, SciPy, and Qiskit) are imported.

**GNSS Signal Parameters**: The parameters of the GNSS signal, such as the sampling frequency and time, are defined.

**GNSS Signal Generation**: A function generate\_gnss\_signal is created that utilizes a chirp signal.

Adding Noise: The function add\_noise simulates noise in the signal.

**Peak Detection**: The function detect\_peaks finds the peaks in the received signal.

**Quantum Circuit**: The function create\_quantum\_circuit constructs a quantum circuit that applies an X gate based on the maximum of the signal.

**Main Function**: In main, all steps are executed: signal generation, noise addition, peak detection, and quantum circuit simulation.

**Execution**: If the file is executed directly, main is called.