# How to Clone and Run MCSpectra from GitHub

#### **Step 1: Install Prerequisites**

Before you start, ensure you have the following installed:

- 1. Python (3.8 or later)
  - o Download and install from python.org
  - Verify installation:
  - o python --version

#### 2. **Git**

- o Download and install from git-scm.com
- Verify installation:
- o git --version

## Step 2: Clone the MCSpectra GitHub Repository

- 1. Open Terminal (macOS/Linux) or Command Prompt/PowerShell (Windows).
- 2. Navigate to the directory where you want to store the project:
  - >> cd path/to/your/directory
- 3. Clone the repository:

```
>> git clone https://github.com/ihsan1990-90/MCSpectra app
```

4. Move into the project folder:

```
>> cd MCSpectra app
```

#### Step 3: Set Up a Virtual Environment (Recommended)

To avoid dependency conflicts, create a virtual environment:

### Windows (Command Prompt/PowerShell)

```
>> python -m venv venv
```

>> venv\Scripts\activate

### macOS/Linux (Terminal)

```
>> python3 -m venv venv
```

>> source venv/bin/activate

#### Step 4: Install Dependencies

Run the following command to install the required packages:

```
>> pip install -r requirements.txt
```

### Step 5: Run MCSpectra

Execute the following command inside the project directory:

```
>> streamlit run spectra w uncertainty SL.py
```

#### Step 6: Open the App in Browser

Once the app starts, you'll see an output like:

```
You can now view your Streamlit app in your browser.
```

Local URL: http://localhost:8501

Network URL: http://192.168.x.x:8501

Open the **Local URL** in a web browser to view the app.