How to Interact With the Code (Quick Reference)

1. Run any script Always run scripts from the **project root** (where `config/`, `core/`, `cli/` live): ``` python -m cli.script_name ``` Example: ``` python -m cli.init_check ```

2. Configuration & Logging - Edit `.env` to set your API keys, mode (paper/backtest/live), etc. - Run: ``` python -m cli.init_check ``` → Confirms keys + logging work. Logs go to both the **console** and `logs/app.log`.

3. Bybit Client (basic exchange actions) Test connectivity & market data: ``` python -m cli.bybit_check ``` It will: - Ping server, show time. - Print symbols, ticker, last few candles. - Show wallet balance.

Safe order test (place + cancel tiny order): ``` python -m cli.order_sanity ```

4. Market Data + Indicators Fetch OHLCV candles and add SMA/EMA/RSI/ATR: ``` python -m cli.indicators_check ``` → Saves a CSV under `reports/` so you can open in Excel.

5. Risk Management Check position sizing and SL/TP proposals: ``` python -m cli.risk_check ``` → Prints position size and suggested SL/TP.

6. Order Executor (bracket order demo) Build an order with TP/SL attached, submit & cancel: ``` python -m cli.order_bracket_demo ``` → Prints order dict, Bybit response, cancel confirmation.

7. Strategies Check strategy signal (e.g., SMA Cross): ``` python -m cli.strategy_check ``` → Prints `LONG`, `SHORT`, or `FLAT` with reason + ATR.

8. Backtesting Run SMA Cross backtest on past data: ``` python -m cli.backtest_sma ``` → Prints stats (winrate, PF, DD, etc.) → Saves `*_trades.csv` and `*_equity.csv` in `reports/`.

General Flow 1. **Config check** → `init_check` 2. **Connectivity** → `bybit_check` 3. **Market data** → `indicators_check` 4. **Risk math** → `risk_check` 5. **Order lifecycle** → `order_sanity` or `order_bracket_demo` 6. **Strategy signals** → `strategy_check` 7. **Backtest** → `backtest_sma` 8. **(Next)** Paper trading loop → simulate strategy in real time

■ In short: - **`cli/` scripts** = demos/tests. - **`exchange/`, `data/`, `risk/`, `orders/`, `strategy/`, `backtest/`** = core modules. - **`reports/`** = results (CSV, later charts). - **`logs/`** = run history.