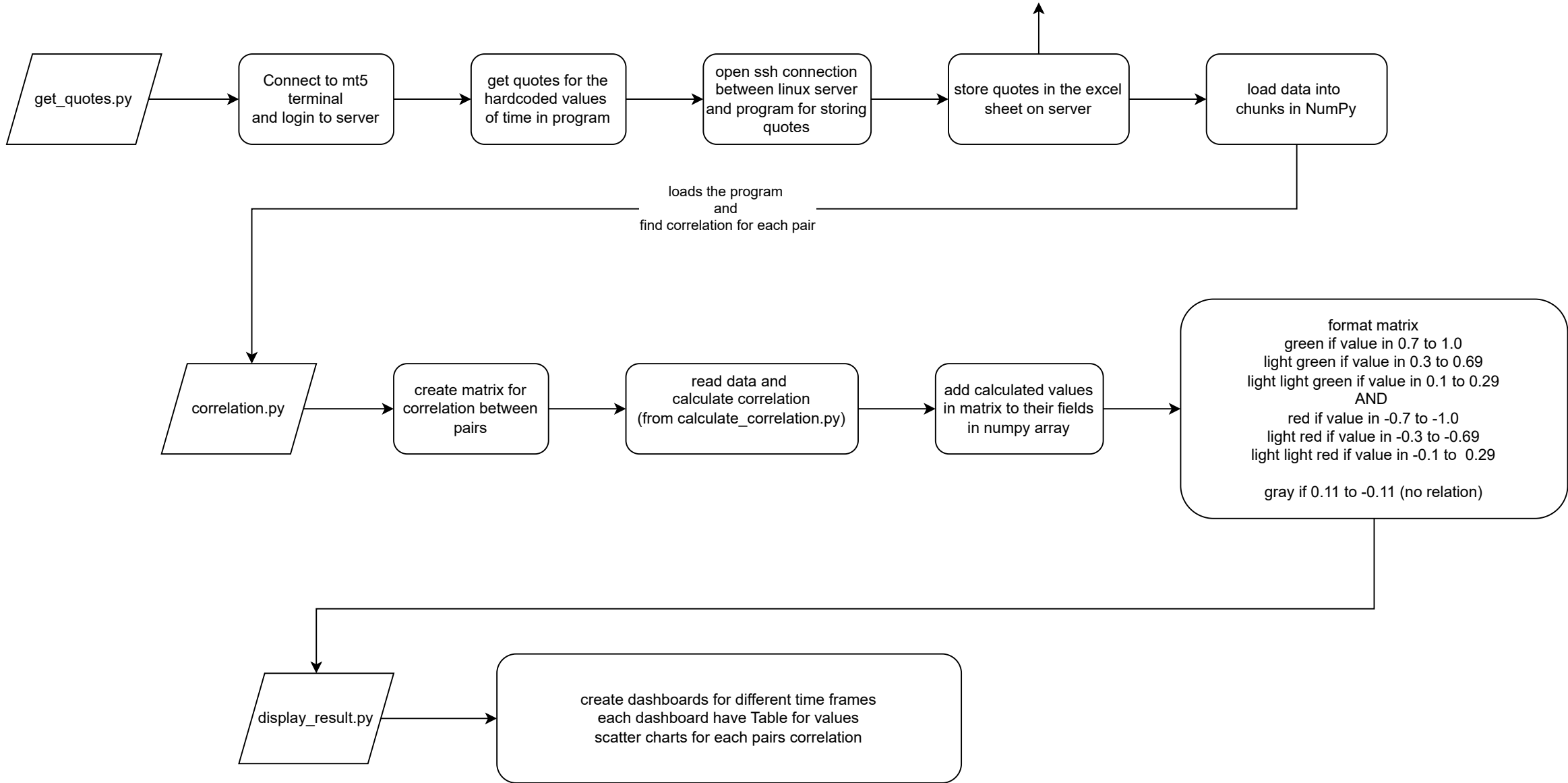# _FOREX CORRELATION_

File Name Format:

basecurrency quotecurrency_TF_startdate-time_enddate-time.xlsx
EX. EURUSD_1M_2020-01-01-00:00_2024-01-01-00:00.xlsx

get_quotes.py → Connect to mt5 terminal and login to server → get quotes for the hardcoded values of time in program → open ssh connection between linux server and program for storing quotes → store quotes in the excel sheet on server → load data into chunks in NumPy

loads the program
and
find correlation for each pair

correlation.py → create matrix for correlation between pairs → read data and calculate correlation (from calculate_correlation.py) → add calculated values in matrix to their fields in numpy array → format matrix
green if value in 0.7 to 1.0
light green if value in 0.3 to 0.69
light light green if value in 0.1 to 0.29
AND
red if value in -0.7 to -1.0
light red if value in -0.3 to -0.69
light light red if value in -0.1 to 0.29

gray if 0.11 to -0.11 (no relation)

display_result.py → create dashboards for different time frames
each dashboard have Table for values
scatter charts for each pairs correlation

**AFTER THIS WE WILL BE GOING TO USE
(AMAZON S3) TO STORE DATA INSTEAD OF LINUX SERVER
AND
(LOOKER STUDIO) CREATE DASHBOARDS AND INSIGHTS**

NOTE

**AFTER ACHIEVING CURRENT PROCESS ADD ARG
PARSER TO USE PROGRAM IN CLI MODE**