Use the regression from HWK 3 to choose one currency pair to go LONG (1M units), and one currency pair to go SHORT (1M units). Then, follow the execution rules bellow (times are EST):

- 1. First execution window: from 3 pm to 5 pm (2 hours): 20% of the order (200K units).
 - a. Execute 10K units every 6 minutes like in HWK 4.
 - b. Store the average execution price $[Avg]_1$.
- 2. Second execution window: from 7 pm to 10 pm (3 hours): 30% of the order (300K units).
 - a. Execute 10K units every 6 minutes after checking the condition:
 - i. LONG: IF $P \ge [Avg]_1$, THEN go LONG (buy). Otherwise, do nothing.
 - ii. SHORT: IF $P \leq [Avg]_1$, THEN go SHORT (sell). Otherwise, do nothing.
 - b. Calculate the EXECUTED amount, and the NON-EXECUTED amount. The NON-EXECUTED amount will be added to the units to be executed on the third execution window.
 - c. Store the average execution price $[Avg]_2$, i.e., the **TOTAL** average execution price from the first and the second execution window.
- 3. Third execution window: from 11 pm to 1 am (2 hours): 20% of the order (200K units).
 - a. Recalculate the number of units to be executed, i.e., add the NON-EXECUTED amount from the previous execution window to 200K units. Then, recalculate the number of units to be executed every 6 minutes.
 - b. Repeat steps a, b, and c from the second execution window.
- 4. Fourth execution window: from 3 am to 6 am (3 hours): 30% of the order.
 - a. Repeat the steps from the third execution window.
 - b. Calculate the TOTAL EXECUTED amount, and the TOTAL NON-EXECUTED amount (the TOTAL NON-EXECUTED amount is the NON-EXECUTED units in the fourth execution window).
- You can use Python or Meta Trader 4 (or 5) for HWK 5 Meta Trader preferred and running for bonus.
- Post your team code and a 1-page rapport on Brightspace one submission per team.
- Use the same teams of HWK 4.