Assignment: Transaction Verifier

- Each group will receive verifier id (vid) and token from TA

- Create a transaction verifier which performs the following task

  1. Read a transaction from "transaction" topic using transaction.avsc schema, extract transaction information including txid, payer, payee, and amount

  2. Verify transaction information with your token by creating signature using gen_signature function (given in the assignment) and submit your verification (vid, txid, and signature) to "submit" topic using submit.avsc schema

  3. System receives and verify the signature and send the confirmation back to verifier via "result" topic

  4. Verifier receives a confirmation from "result" topic (message with code "200" with matching vid and txid)

- Submit with the following information from result message via google form (URL in the assignment): timestamp, vid, txid, and checksum

- Note: kafka broker's IP is lab.aimet.tech port 9092