**Lab1**

The following collection of five documents is given. Documents consist of orders. An order has an id (e.g. “o1”), the year in which it was issued, the cost, the items in the order, and the number of days it took to deliver the order. The cost is specified as the price in a given currency.

The order items consist of products. A product has an id (e.g., “p1”), colours, and quantity.

{"order":"o1","year":2020,"paid":"Y","cost":{"price":30,"currency":"NOK"},

"items":[{"product":"p1","colours":["blue","black"],"quantity":15}],"delivery\_days":5},

{"order":"o2","year":2020,"paid":"Y","cost":{"price":13,"currency":"EUR"},

"items":[{"product":"p2","colours":["white"],"quantity":4},

{"product":"p3","colours":["white","black"],"quantity":1}],"delivery\_days":4},

{"order":"o3","year":2018,"paid":"N","cost":{"price":33,"currency":"EUR"},

"items":[{"product":"p3","colours":["blue","black"],"quantity":4}], "delivery\_days":4},

{"order":"o4","year":2017,"paid":"Y","cost":{"price":17,"currency":"NOK"},

"items":[{"product":"p2","colours":["pink","black"],"quantity":14},

{"product":"p4","colours":["white"],"quantity":1}], "delivery\_days":2},

{"order":"o5","year":2020,"paid":"Y","cost":{"price":19,"currency":"NOK"}, "items":[{"product":"p1","quantity":15}], "delivery\_days":3}

## Queries

1. Retrieve all documents in a collection
2. Retrieve all documents in a collection limit 5 and not show first 3 documents
3. Retrieve all documents that contain paid orders (the "paid" field is "Y")
4. Retrieve all documents that contain paid orders and the orders is 2019
5. Retrieve all documents that contain unpaid orders or whose orders are from before 2019
6. Retrieve all documents that contain orders whose price currency is in NOK
7. Retrieve all documents that contain orders whose price is 18 NOK
8. update all documents with orders that contain product "p2" and increment price 7
9. delete all documents with orders that contain products whose quantity is 4
10. Retrieve all documents with orders that contain products whose first colour (i.e., first element in the "colours" array) is blue