Week2_Implementation

Exercise 1 - Check the lab environment

Before you proceed with the assignment:

Check if you have the 'mongoimport' and 'mongoexport' installed on the lab, otherwise install them.

```
wget https://fastdl.mongodb.org/tools/db/mongodb-database-tools-ubuntu1804-x86_64-
100.3.1.tgz
tar -xf mongodb-database-tools-ubuntu1804-x86_64-100.3.1.tgz
export PATH=$PATH:/home/project/mongodb-database-tools-ubuntu1804-x86_64-100.3.1/bin
```

mongoimport --version
mongoexport --version

Download the catalog.json file from https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DB0321EN-SkillsNetwork/nosql/catalog.json.

wget https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBM-DB0321EN-SkillsNetwork/nosql/catalog.json

Exercise 2 - Working with MongoDB

Task 1 - Import 'catalog.json' into mongodb server into a database named 'catalog' and a collection named 'electronics'

```
start mongo
```

```
mongoimport -u root -p my_password --authenticationDatabase admin --db catalog --collection electronics --file catalog.json
```

Task 2 - List out all the databases

```
mongo -u root -p MjQ0MS1qb2FvcGF1 --authenticationDatabase admin local
```

show dbs

Task 3 - List out all the collections in the database catalog.

```
use catalog
show collections
```

Task 4 - Create an index on the field "type"

db.electronics.createIndex({"type":1})

Task 5 - Write a query to find the count of laptops

Task 6 - Write a query to find the number of smart phones with screen size of 6 inches.

Task 7. Write a query to find out the average screen size of smart phones

Task 8 - Export the fields _id, "type", "model", from the 'electronics' collection into a file named electronics.csv

mongoexport -u root -p MjQ0MS1qb2FvcGF1 --authenticationDatabase admin --db catalog --collection electronics --out electronics.csv --type=csv --fields _id,type,model