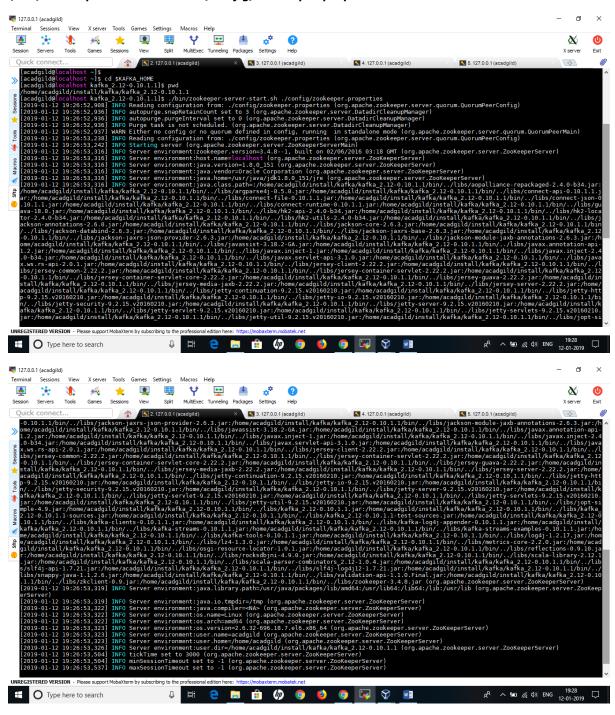
Assignment 22.1 – Kafka Introduction.

To solve all the tasks we need to start the zookeeper and the Kafka broker as show below in the screen shots.

First, we will go to KAFKA directory by changing the directory path and run the command to start zookeeper server by using following commands

cd \$KAFKA_HOME

./bin/zookeeper-server-start.sh ./config/zookeeper.properties



To start kafka server we use the below command in KAFKA home directory

cd \$KAFKA_HOME

./bin/kafka-server-start.sh ./config/server.properties

Task 1: Create a kafka topic named KeyLessTopic.

Inside KeyLessTopic insert following data:

```
{"name":"John", "exp":16}

{"name":"Finn", "exp":20}

{"name":"Cylin", "exp":18}

{"name":"Mark", "exp":2}

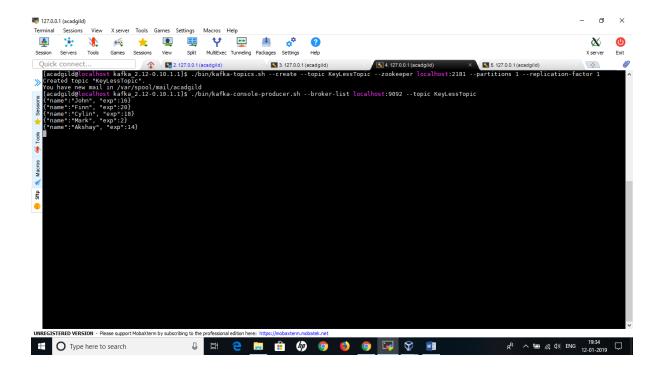
{"name":"Akshay", "exp":14}
```

We use the below command to create topic as shown in the screen shot.

./bin/kafka-topics.sh --create --topic KeyLessTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1

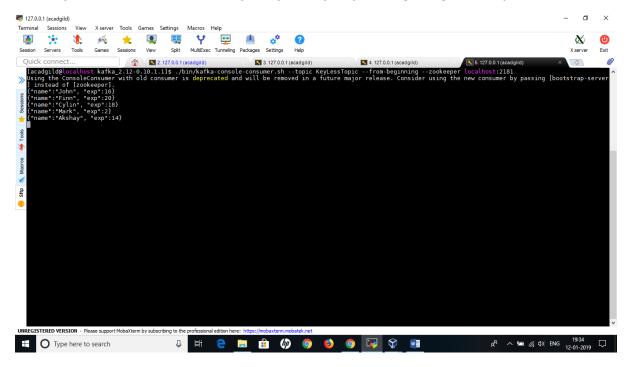
To insert the above data we will create kafka producer by using below command

./bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyLessTopic



Task 2: Create a console consumer that reads KeyLessTopic from beginning

./bin/kafka-console-consumer.sh --topic KeyLessTopic --from-beginning --zookeeper localhost:2181



Task 3:Create a kafka topic named KeyedTopic. Inside KeyedTopic insert following data:

The part before comma(,) should be treated as key and after comma(,) should be treated as value

{"name":"John"},{"exp":16}

{"name":"Finn"},{"exp":20}

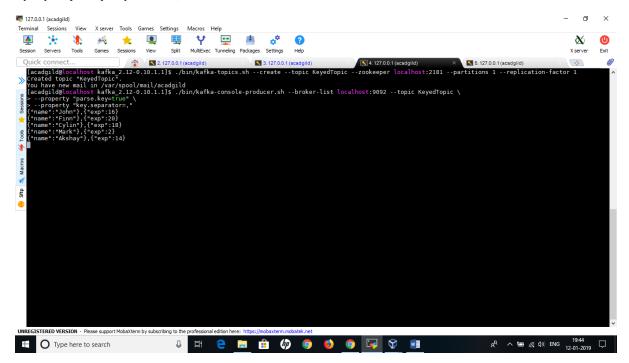
```
{"name":"Cylin"},{"exp":18}
{"name":"Mark"},{"exp":2}
{"name":"Akshay"},{"exp":14}
```

To Create the KeyedTopic

./bin/kafka-topics.sh --create --topic KeyedTopic --zookeeper localhost:2181 --partitions 1 --replication-factor 1

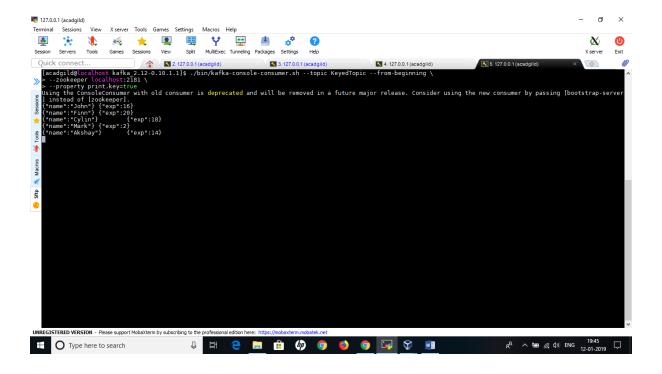
To insert the data use the below command:

- ./bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic \
- --property "parse.key=true" \
- --property "key.separator=,"



To read the data on consumer side with key value separator we use the below commad

- ./bin/kafka-console-consumer.sh --topic KeyedTopic --from-beginning \
- --zookeeper localhost:2181 \
- --property print.key=true



Task 4: Create a console consumer that reads KeyedTopic from beginning

The key and value should be separated by '-'

To read the data on consumer side with key value separator "-" we use the below commad

```
./bin/kafka-console-consumer.sh --topic KeyedTopic --from-beginning \
```

- --zookeeper localhost:2181 \
- --property print.key=true \
- --property key.separator="-" \
- --from-beginning

