

Assignment - 23.1

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}
```

Answer:

Starting Zookeeper.

```
cd $KAFKA_HOME
```

```
#!/bin/zookeeper-server-start ./etc/kafka/zookeeper.properties
```

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

Starting broker

```
cd $KAFKA_HOME
```

```
#!/bin/kafka-server-start ./etc/kafka/server.properties
```

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

Creating topic

```
cd $KAFKA_HOME
```

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

```
you have new mail in /var/spool/mail/acadgild  
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-topics.sh --create --topic KeyedTopic --zookeeper localhost:2181 --partitions 1  
--replication-factor 1  
Created topic "KeyedTopic".  
[acadgild@localhost kafka_2.12-0.10.1.1]$
```

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

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}
```

Task 4:

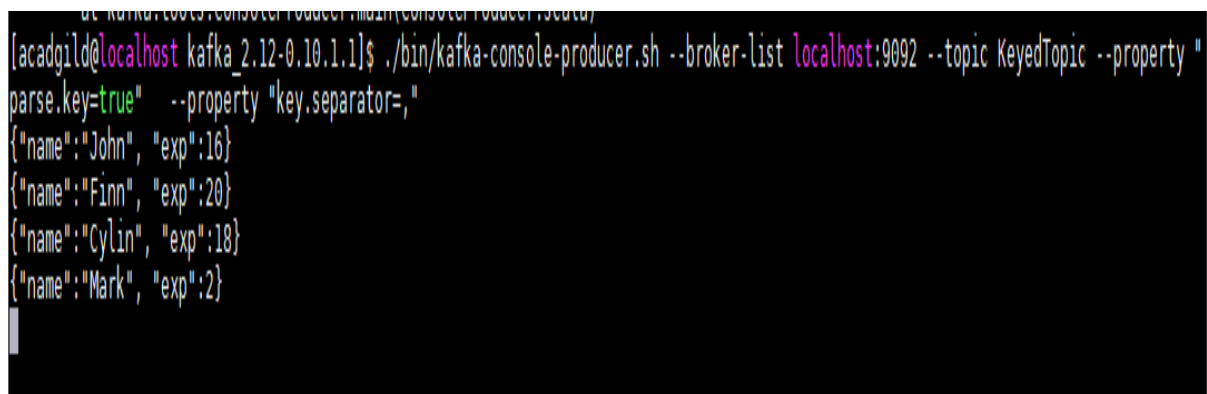
Create a console consumer that reads KeyedTopic from beginning

The key and value should be separated by '-'

Running a console producer

```
cd $KAFKA_HOME
```

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

A terminal window with a black background and white text. The prompt is [acadgild@localhost kafka_2.12-0.10.1.1]\$. The command entered is ./bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "parse.key=true" --property "key.separator=,". The output shows five JSON objects, each on a new line: {"name":"John", "exp":16}, {"name":"Finn", "exp":20}, {"name":"Cylin", "exp":18}, {"name":"Mark", "exp":2}.

```
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-console-producer.sh --broker-list localhost:9092 --topic KeyedTopic --property "  
parse.key=true" --property "key.separator=,"  
{ "name": "John", "exp": 16 }  
{ "name": "Finn", "exp": 20 }  
{ "name": "Cylin", "exp": 18 }  
{ "name": "Mark", "exp": 2 }
```

Running a console consumer

```
cd $KAFKA_HOME
```

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

All messages published to the topic 'KeyedTopic' will now be consumed and displayed in this terminal

```
Last login: Mon Jun 11 22:33:32 2018 from 192.168.0.105
[acadgild@localhost ~]$ cd $KAFKA_HOME
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost kafka_2.12-0.10.1.1]$ ./bin/kafka-console-consumer.sh --topic KeyedTopic --from-beginning --zookeeper localhost:2181 \
> --property print.key=true
Using the ConsoleConsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-server] instead of [zookeeper].
{"name": "John", "exp":16}
{"name": "Finn", "exp":20}
{"name": "Cylin", "exp":18}
{"name": "Mark", "exp":2}
{"name": "Akshay", "exp":14}
{"name": "John", "exp":16}
{"name": "Finn", "exp":20}
{"name": "Cylin", "exp":18}
{"name": "Mark", "exp":2}
{"name": "John", "exp":16}
{"name": "Finn", "exp":20}
{"name": "Cylin", "exp":18}
{"name": "Mark", "exp":2}
```