ASSIGNMENT KAFKA-2

Task 1:

Create a java program MyKafkaProducer.java that takes a file name and delimiter as input arguments.

It should read the content of file line by line.

Fields in the file are in following order

- 1. Kafka Topic Name
- 1. Key
- 1. value

For every line, insert the key and value to the respective Kafka broker in a fire and forget mode.

After record is sent, it should print appropriate message on screen.

Pass dataset producer.txt as the input file and - as delimiter.

Task 2:

Modify the previous program MyKafkaProducer.java and create a new Java program KafkaProducerWithAck.java.

This should perform the same task as of KafkaProducer.java with some modification.

When passing any data to a topic, it should wait for acknowledgement. After acknowledgement is received from the broker, it should print the key and value, which has been written to a specified topic.

The application should attempt for three retries before giving any exception.

Pass dataset producer.txt as the input file and - as delimiter.

EXPLANATION: TO START WITH THE KAFKA WE NEED TO START THE FOLLOWING:

1) ZOOKEEPER SERVER: TO START ZOOKEEPER WE NEED TO GO INTO ZOOKEEPER BIN FOLDER WHERE THE NECESSARY FILES ARE PRESENT FOR STARTING THE ZOOKEEPER. SO WE NEED TO CHANGE THE DIRECTORY TO "cd \$ZOOKEEPER_HOME". THEN GO TO BIN FOLDER "cd bin". THEN ENTER BELOW:-

CODE: zkServer.sh start

THIS WILL START THE ZOOKEEPER SERVICES. THEN WE NEED TO START THE ZOOKEEPER

```
[acadgild8localhost ~] % cd %KAFKA_HOME
for have new mail in /var/spool/mail/acadgild
[acadgild8localhost kafka_2.12-0.10.1.1] % ./bin/zookeeper-server-start.sh ./config/zookeeper.properties
[2018-05-27 14:30:37,175] INFO Reading configuration from: ./config/zookeeper.properties (org.apache.zookeeper.server.quor
[2018-05-27 14:30:37,175] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.DatadirCleanupManager)
[2018-05-27 14:30:37,175] INFO autopurge.purgeInterval set to 0 (org.apache.zookeeper.server.DatadirCleanupManager)
[2018-05-27 14:30:37,175] INFO Purge task is not scheduled. (org.apache.zookeeper.server.DatadirCleanupManager)
[2018-05-27 14:30:37,205] INFO Reading configuration from: ./config/zookeeper.properties (org.apache.zookeeper.server.quor
[2018-05-27 14:30:37,205] INFO Server environment:zookeeper.version=3.4.8--1, built on 02/06/2016 03:18 GMT (org.apache.zo
[2018-05-27 14:30:37,228] INFO Server environment:java.version=3.4.8--1, built on 02/06/2016 03:18 GMT (org.apache.zo
[2018-05-27 14:30:37,228] INFO Server environment:java.version=1.8.0_151 (org.apache.zookeeper.server.ZooKeeperServer)
[2018-05-27 14:30:37,228] INFO Server environment:java.org.apache.zookeeper.server.apace.zookeeper.server.ZooKeeperServer]
[2018-05-27 14:30:37,228] INFO Server environment:java.lone=1.8.0_
```

```
2018-05-27 14:30:37,228] INFO Server environment:java.io.tmpdir=/tmp (org.apache.zookeeper.server.ZookeeperServer)
2018-05-27 14:30:37,228] INFO Server environment:java.compiler=<NA> (org.apache.zookeeper.server.ZooKeeperServer)
2018-05-27 14:30:37,228] INFO Server environment:os.name=Linux (org.apache.zookeeper.server.ZooKeeperServer)
2018-05-27 14:30:37,228] INFO Server environment:os.arch=amd64 (org.apache.zookeeper.server.ZooKeeperServer)
2018-05-27 14:30:37,228] INFO Server environment:os.version=2.6.32-696.18.7.e16.x86_64 (org.apache.zookeeper.server.ZookeeperServer)
2018-05-27 14:30:37,229] INFO Server environment:user.name=acadgild (org.apache.zookeeper.server.ZooKeeperServer)
2018-05-27 14:30:37,229] INFO Server environment:user.home=/home/acadgild (org.apache.zookeeper.server.ZookeeperServer)
2018-05-27 14:30:37,230] INFO Server environment:user.dir=/home/acadgild/install/kafka/kafka 2.12-0.10.1.1 (org.apache.zookeeper.server
2018-05-27 14:30:37,245] INFO tickTime set to 3000 (org.apache.zookeeper.server.ZooKeeperServer)
2018-05-27 14:30:37,245] INFO minSessionTimeout set to -1 (org.apache.zookeeper.server.ZooKeeperServer)
2018-05-27 14:30:37,245] INFO maxSessionTimeout set to -1 (org.apache.zookeeper.server.ZooKeeperServer)
2018-05-27 14:30:37,265] INFO binding to port 0.0.0.0.0/0.0.0.0:2181 (org.apache.zookeeper.server.NIOServerCnxnFactory)
2018-05-27 14:30:45,001] INFO Expiring session 0x163a07a89080000, timeout of 6000ms exceeded (org.apache.zookeeper.server.ZookeeperServ
2018-05-27 14:30:45,004] INFO Processed session termination for sessionid: 0x163a07a89080000 (org.apache.zookeeper.server.PrepRequestPr
2018-05-27 14:30:45,006] INFO Creating new log file: log.206 (org.apache.zookeeper.server.persistence.FileTxnLog)
2018-05-27 14:31:09,000] INFO Expiring session 0x163a07a8908000d, timeout of 30000ms exceeded (org.apache.zookeeper.server.ZooKeeperSer
2018-05-27 14:31:09,001] INFO Expiring session 0x163a07a8908000f, timeout of 30000ms exceeded (org.apache.zookeeper.server.ZooKeeperSe
2018-05-27 14:31:09,002] INFO Expiring session 0x163a07a8908000c, timeout of 30000ms exceeded (org.apache.zookeeper.server.ZooKeeperSer
[2018-05-27 14:31:09,002] INFO Expiring session 0x163a07a89080010, timeout of 30000ms exceeded (org.apache.zookeeper.server.ZooKeeperSer
2018-05-27 14:31:09,004] INFO Processed session termination for sessionid: 0x163a07a8908000d (org.apache.zookeeper.server.PrepRequestP
2018-05-27 14:31:09,005] INFO Processed session termination for sessionid: 0x163a07a8908000f (org.apache.zookeeper.server.PrepRequestP.
2018-05-27 14:31:09,005] INFO Processed session termination for sessionid: 0x163a07a8908000c (org.apache.zookeeper.server.PrepRequestP
2018-05-27 14:31:09,006] INFO Processed session termination for sessionid: 0x163a07a89080010 (org.apache.zookeeper.server.PrepRequestPr
```

CODE: cd \$KAFKA_HOME

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

2) KAFKA SERVER "BROKER": NOW WE NEED TO CHANGE DIRECTORY TO KAFKA BY "cd \$KAFKA HOME". THEN ENTER BELOW CODE:

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

```
socket.request.max.bytes = 104857600
         socket.send.buffer.bytes = 102400
         ssl.cipher.suites = null
         ssl.enabled.protocols = [TLSv1.2, TLSv1.1, TLSv1]
         ssl.endpoint.identification.algorithm = null
         ssl.key.password = null
         ssl.keymanager.algorithm = SunX509
         ssl.keystore.location = null
         ssl.keystore.password = null
         ssl.keystore.type = JKS
         ssl.protocol = TLS
         ssl.provider = null
         ssl.secure.random.implementation = null
         ssl.trustmanager.algorithm = PKIX
         ssl.truststore.location = null
         ssl.truststore.password = null
         ssl.truststore.type = JKS
         unclean.leader.election.enable = true
         zookeeper.connect = localhost:2181
         zookeeper.connection.timeout.ms = 6000
         zookeeper.session.timeout.ms = 6000
         zookeeper.set.acl = false
         zookeeper.sync.time.ms = 2000
 (kafka.server.KafkaConfig)
2018-05-27 14:32:21,730] INFO starting (kafka.server.KafkaServer)
[2018-05-27 14:32:21,752] INFO [ThrottledRequestReaper-Fetch], Starting (kafka.server.ClientQuotaManager$Throttled
[2018-05-27 14:32:21,754] INFO [ThrottledRequestReaper-Produce], Starting (kafka.server.ClientQuotaManager$Throttl
[2018-05-27 14:32:21,773] INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2018-05-27 14:32:21,796] INFO Starting ZkClient event thread. (org.IOItec.zkclient.ZkEventThread)
[2018-05-27 14:32:21,803] INFO Client environment:zookeeper.version=3.4.8--1, built on 02/06/2016 03:18 GMT (org.ap
[2018-05-27 14:32:21,803] INFO Client environment:host.name=localhost (org.apache.zookeeper.Zookeeper)
[2018-05-27 14:32:21,803] INFO Client environment:java.version=1.8.0 151 (org.apache.zookeeper.Zookeeper)
[2018-05-27 14:32:21,803] INFO Client environment:java.vendor=Oracle Corporation (org.apache.zookeeper.ZooKeeper)
[2018-05-27 14:32:21,803] INFO Client environment:java.home=/usr/java/jdk1.8.0_151/jre (org.apache.zookeeper.ZooKee
[2018-05-27 14:32:21,803] INFO Client environment:java.class.path=:/home/acadgild/install/kafka/kafka 2.12-0.10.1.1
me/acadgild/install/kafka/kafka\_2.12-0.10.1.1/bin/../libs/argparse4j-0.5.0.jar:/home/acadgild/instal17kafka/kafka\_2
2018-05-27 14:32:21,860] INFO Session establishment complete on server localhost/127.0.0.1:2181, sessionid = 0x163a0d3fc700000, negoti
ookeeper.ClientCnxn)
[2018-05-27 14:32:21,862] INFO zookeeper state changed (SyncConnected) (org.IOItec.zkclient.Zkclient)
2018-05-27 14:32:22,144] INFO Cluster ID = pv7NE12tSqiFD2G930 wxQ (kafka.server.KafkaServer)
[2018-05-27 14:32:22,298] INFO Loading logs. (kafka.log.LogManager)
2018-05-27 14:32:22,380] INFO Completed load of log UserTopic-O with 1 log segments and log end offset 6 in 51 ms (kafka.log.Log)
[2018-05-27 14:32:22,395] INFO Completed load of log sample topic-O with 1 log segments and log end offset 2 in 2 ms (kafka.log.Log)
2018-05-27 14:32:22,405] INFO Completed load of log KeyedTopic-0 with 1 log segments and log end offset 10 in 3 ms (kafka.log.Log)
[2018-05-27 14:32:22,416] INFO Completed load of log ItemTopic-O with 1 log segments and log end offset 6 in 5 ms (kafka.log.Log)
2018-05-27 14:32:22,428] INFO Completed load of log TestTopic1-0 with 1 log segments and log end offset 5 in 3 ms (kafka.log.Log)
[2018-05-27 14:32:22,439] INFO Completed load of log TestTopic-O with 1 log segments and log end offset 5 in 3 ms (kafka.log.Log)
[2018-05-27 14:32:22,448] INFO Logs loading complete in 150 ms. (kafka.log.LogManager)
[2018-05-27 14:32:22,509] INFO Starting log cleanup with a period of 300000 ms. (kafka.log.LogManager)
[2018-05-27 14:32:22,515] INFO Starting log flusher with a default period of 9223372036854775807 ms. (kafka.log.LogManager)
[2018-05-27 14:32:22,634] INFO Awaiting socket connections on 0.0.0.0:9092. (kafka.network.Acceptor)
[2018-05-27 14:32:22,639] INFO [Socket Server on Broker 0], Started 1 acceptor threads (kafka.network.SocketServer)
[2018-05-27 14:32:22,685] INFO [ExpirationReaper-0], Starting (kafka.server.DelayedOperationPurgatory$ExpiredOperationReaper)
[2018-05-27 14:32:22,687] INFO [ExpirationReaper-0], Starting (kafka.server.DelayedOperationPurgatory$ExpiredOperationReaper)
[2018-05-27 14:32:22,781] INFO Creating /controller (is it secure? false) (kafka.utils.ZKCheckedEphemeral)
[2018-05-27 14:32:22,800] INFO Result of znode creation is: OK (kafka.utils.ZKCheckedEphemeral)
[2018-05-27 14:32:22,804] INFO O successfully elected as leader (kafka.server.ZookeeperLeaderElector)
2018-05-27 14:32:23,304] INFO New leader is O (kafka.server.ZookeeperLeaderElector$LeaderChangeListener)
[2018-05-27 14:32:23,314] INFO [ExpirationReaper-0], Starting (kafka.server.DelayedOperationPurgatory$ExpiredOperationReaper)
[2018-05-27 14:32:23,325] INFO [ExpirationReaper-0], Starting (kafka.server.DelayedOperationPurgatory$ExpiredOperationReaper)
[2018-05-27 14:32:23,334] INFO [ExpirationReaper-0], Starting (kafka.server.DelayedOperationPurgatory$ExpiredOperationReaper)
2018-05-27 14:32:23,350] INFO [GroupCoordinator 0]: Starting up. (kafka.coordinator.GroupCoordinator)
                          INFO [GroupCoordinator 0]: Startup complete. (kafka.coordinator.GroupCoordinator)
2018-05-27 14:32:23,365] INFO [Group Metadata Manager on Broker 0]: Removed O expired offsets in 4 milliseconds. (kafka.coordinator.Gr
2018-05-27 14:32:23,403]
                           INFO Will not load MX4J, mx4j-tools.jar is not in the classpath (kafka.utils.Mx4jLoader$)
2018-05-27 14:32:23,532]
                           INFO Creating /brokers/ids/O (is it secure? false) (kafka.utils.ZKCheckedEphemeral)
2018-05-27 14:32:23,550]
                           INFO Result of znode creation is: OK (kafka.utils.ZKCheckedEphemeral)
2018-05-27 14:32:23,552] INFO Registered broker 0 at path /brokers/ids/O with addresses: PLAINTEXT -> EndPoint(localhost,9092,PLAINTEX
2018-05-27 14:32:23,582]
                           INFO Kafka version: 0.10.1.1 (org.apache.kafka.common.utils.AppInfoParser)
2018-05-27 14:32:23,582]
                           INFO Kafka commitId: f10ef2720b03b247 (org.apache.kafka.common.utils.AppInfoParser)
2018-05-27 14:32:23,587]
                           INFO [Kafka Server 0], started (kafka.server.KafkaServer)
2018-05-27 14:32:24,003] INFO [ReplicaFetcherManager on broker 0] Removed fetcher for partitions UserTopic-0,ItemTopic-0,TestTopic-0,K
pic1-0 (kafka.server.ReplicaFetcherManager)
[2018-05-27 14:32:24,098] INFO [ReplicaFetcherManager on broker 0] Removed fetcher for partitions UserTopic-0,ItemTopic-0,TestTopic-0,K
pic1-0 (kafka.server.ReplicaFetcherManager)
```

ocket.recelve.buller.bytes

3) WE CAN CHECK THE ZOOKEEPER AND KAFKA SERVER RUNNING BY ENTERING:-

CODE: jps

EXPLANATION: NOW TO PERFORM THE TASK FIRST CREATED A MAVEN PROJECT FOR ADDING THE NECESSARY DEPENDENCIES FOR THE KAFKA TO WORK IN ECLIPSE ENVIRONMENT. THEN WE CREATED A JAVA PROJECT WITH THE JAVA CLASS AS "MyKafkaProducer". BELOW IS THE DATASET FOR PRODUCER TO WORK ON WHICH IS SAVED IN THE:- "PATH:/home/acadgild/dataset producer"

```
ItemTopic-{"item id":"101"}-{"user id":"U101"}
UserTopic-{"name":"John"}-{"exp":16}
ItemTopic-{"item id":"101"}-{"user id":"U106"}
UserTopic-{"item id":"101"}-{"user id":"U106"}
UserTopic-{"name":"Mark"}-{"exp":18}
ItemTopic-{"item id":"102"}-{"user id":"U110"}
UserTopic-{"name":"Cylin"}-{"exp":15}
ItemTopic-{"item id":"102"}-{"user id":"U101"}
UserTopic-{"name":"Prod"}-{"exp":14}
ItemTopic-{"item id":"104"}-{"user id":"U102"}
UserTopic-{"name":"Abhay"}-{"exp":17}
ItemTopic-{"item id":"107"}-{"user id":"U104"}
UserTopic-{"item id":"107"}-{"user id":"U104"}
UserTopic-{"name":"Misano"}-{"exp":19}
```

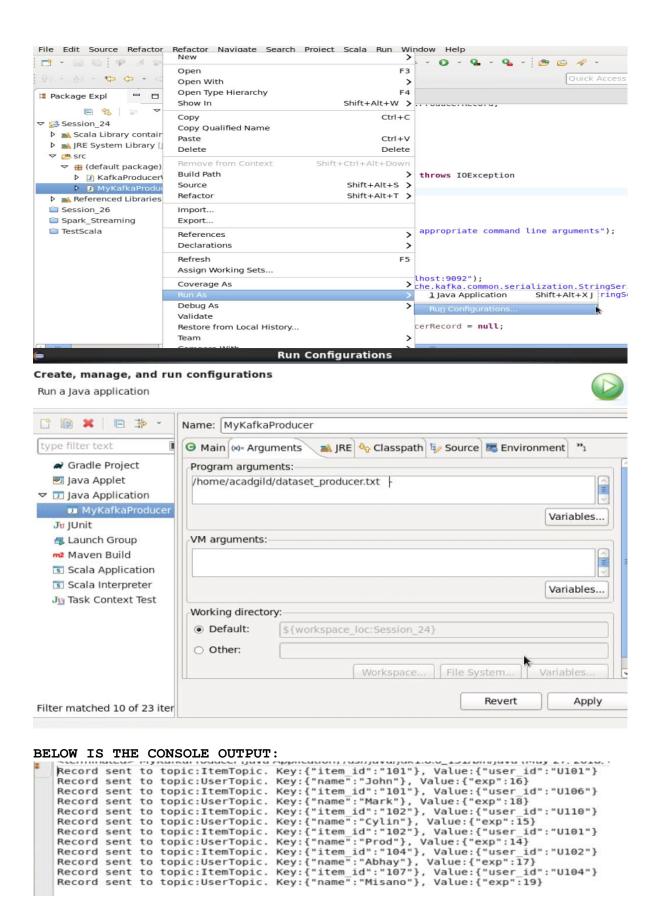
SOLUTION FOR TASK 1:

JAVA CODE FOR MyKafkaProducer

```
package kafkaProjnew;
import org.apache.kafka.clients.producer.KafkaProducer;
import org.apache.kafka.clients.producer.ProducerRecord;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import java.util.Properties;
public class MyKafkaProducer
{
public static void main(String[] args) throws IOException
   if (args.length != 2)
     System.out.println("Please provide appropriate command line
argument");
     System.exit(-1);
   Properties props = new Properties();
     props.put("bootstrap.servers", "localhost:9092");
     props.put("key.serializer",
"org.apache.kafka.common.serialization.StringSerializer");
```

```
props.put("value.serializer",
"org.apache.kafka.common.serialization.StringSerializer");
    KafkaProducer<String, String> producer = new KafkaProducer<>(props);
    ProducerRecord<String, String> producerRecord = null;
    String fileName = args[0];
    String delimiter = args[1];
    try(BufferedReader br = new BufferedReader(new FileReader(fileName)))
     for(String line; (line = br.readLine()) != null; )
          String[] tempArray = line.split(delimiter);
          String topic = tempArray[0];
          String key = tempArray[1];
          String value = tempArray[2];
     producerRecord = new ProducerRecord<String, String>(topic, key,
value);
     producer.send(producerRecord);
     System.out.printf("Record sent to topic:%s. Key:%s\n, Value:%s\n",
topic ,key, value);
     }
    }
          producer.close();
  }
```

EXPLANATION: NOW GO TO "MyKafkaProducer" AND THEN RIGHT CLICK ON IT THEN CLICK ON THE OPTION "RUN AS" AND GO TO "RUN CONFIGURATION". THEN GO TO ARGUMENTS OPTION AND GIVE THE FILE PATH AND PASS THE INPUT DATA FILE WITH "-" AS SHOWN BELOW. THEN CLICK "APPLY".



PRINT MESSAGE IN KEY VALUE FORMAT AS SHOWN BELOW. FOR TOPIC "UserTopic" DID THE SAME.

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

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

```
[acadgild@localhost kafka 2.12-0.10.1.1] $ ./bin/kafka-console-consumer.sh --topic ItemTopic --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
nstead of [zookeeper].
("item id":"101")
                       ("user id":"U101")
                       ("user id":"U106")
{"item id":"101"}
                        {"user id":"U110"}
{"item id":"102"}
                        {"user id":"U101"}
{"item id":"102"}
"item id":"104"}
                        {"user id":"U102"}
{"item id":"107"}
                       {"user id":"U104"}
```

```
[acadgild@localhost kafka_2.12-0.10.1.1] $ ./bin/kafka-console-consumer.sh --topic UserTopic --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 nstead of [zookeeper].
{"name":"John"} {"exp":16}
("name":"Mark") {"exp":18}
("name":"Wark") {"exp":15}
("name":"Prod") {"exp":14}
{"name":"Abhay"} {"exp":17}
("name":"Misano") {"exp":19}
```

EXPLANATION: WE DID THE SAME STEPS FOR THE JAVA PROGRAM "KafkaProducerWithAck"

SOLUTION FOR TASK 2:

JAVA CODE FOR KafkaProducerWithAck

```
package kafkaProjnew;
import org.apache.kafka.clients.producer.KafkaProducer;
import org.apache.kafka.clients.producer.ProducerRecord;

import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import java.util.Properties;
import java.util.eoncurrent.ExecutionException;

public class KafkaProducerWithAck
{
   public static void main(String[] args) throws IOException,
```

```
InterruptedException, ExecutionException
     if (args.length != 2)
       System.out.println("Please provide appropriate command line
argument");
       System.exit(-1);
     Properties props = new Properties();
     props.put("bootstrap.servers", "localhost:9092");
     props.put("acks", "all");
     props.put("retries", "all");
     props.put("key.serializer", "org.apache.kafka.common.serialization
.StringSerializer");
     props.put("value.serializer",
"org.apache.kafka.common.serialization.StringSerializer");
     KafkaProducer<String, String> producer = new
KafkaProducer<>(props);
     ProducerRecord<String, String> producerRecord = null;
     String fileName = args[0];
     String delimiter = args[1];
     try(BufferedReader br = new BufferedReader(new
FileReader(fileName)))
     {
      for(String line; (line = br.readLine()) != null; )
           String[] tempArray = line.split(delimiter);
           String topic = tempArray[0];
           String key = tempArray[1];
           String value = tempArray[2];
       producerRecord = new ProducerRecord<String, String>(topic, key,
value);
       producer.send(producerRecord);
       System.out.printf("Record sent to topic:%s. and Acknowledged as
well. Key:%s\n, Value:%s\n", topic ,key, value);
      }
     }
     producer.close();
  }
}
```

OUTPUT IN CONSOLE:

Below screenshot shows the producer program acknowledge first and after receiving acknowledgment from the broker, it print the message "Acknowledged as well" and key and value, which has been written to a specified topic

```
Record sent to topic:ItemTopic and acknowledged as well. Key:{"item_id":"101"}, Value:{"user_id":"U101"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"name":"John"}, Value:{"exp":16}
Record sent to topic:ItemTopic and acknowledged as well. Key:{"item_id":"101"}, Value:{"user_id":"U106"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"102"}, Value:{"exp":18}
Record sent to topic:ItemTopic and acknowledged as well. Key:{"item_id":"102"}, Value:{"user_id":"U110"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"name":"Cylin"}, Value:{"exp":15}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"102"}, Value:{"user_id":"U101"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"name":"Prod"}, Value:{"exp":14}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"104"}, Value:{"user_id":"U102"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"104"}, Value:{"user_id":"U102"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"name":"Abhay"}, Value:{"user_id":"U104"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"107"}, Value:{"user_id":"U104"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"107"}, Value:{"user_id":"U104"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"107"}, Value:{"user_id":"U104"}
Record sent to topic:UserTopic and acknowledged as well. Key:{"item_id":"107"}, Value:{"user_id":"U104"}
```

EXPLANATION: RUNNING A KAFKA CONSOLE CONSUMER FOR TOPIC "ItemTopic" TO PRINT MESSAGE IN KEY VALUE FORMAT AS SHOWN BELOW. FOR TOPIC "UserTopic" DID THE SAME.

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

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

```
[acadgiid@localhost kafka 2.12-0.10.1.1]$ ./bin/kafka-console-consumer.sh --topic ItemTopic --from-beginning --sookeeper 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-ser
nstead of [sookeeper].
"item id":"101") ("user id":"U101")
                      ("user_id":"U106")
"item id":"102")
                       ("user id":"U110")
                      ("user id":"U101")
"item id":"104"}
                      {"user id":"U102"}
                       ("uset_1d":"U104")
 "item id":"101"}
                       ("user id":"U101")
"item id":"101")
                       ("user id": "U106")
"item id":"102"}
                       ("user id":"V110")
"item_id":"102")
                      ("user_id":"U101")
 "item id":"104"}
                       ("user id":"U102")
 "item id":"107")
                       ("user id":"U104")
```

```
[acadgid@localhost kafka_2.12-0.10.1.1] $ ./bin/kafka-console-consumer.sh --topic UserTopic --from-beginning --zookeeper localhost:2181 --property print.key*true
Using the Consoletonsumer with old consumer is deprecated and will be removed in a future major release. Consider using the new consumer by passing [bootstrap-sen
natead of [zookeeper].

("name":"John") ("exp":16)

("name":"Wark") ("exp":18)

("name":"Prod") ("exp":19)

("name":"Abhay") ("exp":19)

("name":"Misano") ("exp":16)

("name":"Wark") ("exp":16)

("name":"Prod") ("exp":16)

("name":"Prod") ("exp":16)

("name":"Prod") ("exp":19)

("name":"Nark") ("exp":19)

("name":"Nark") ("exp":19)

("name":"Nark") ("exp":19)
```