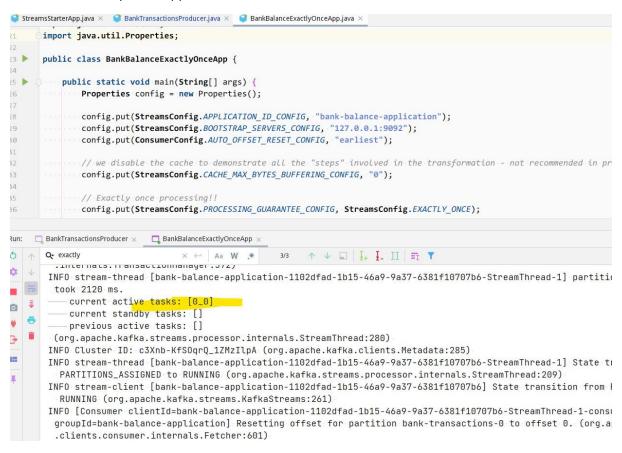
Consumer Log

```
StreamsStarterApp.java × StreamsStarterApp.java ×
14
15
      public class BankTransactionsProducer {
16
          public static void main(String[] args) {
              Properties = new Properties();
18
              // kafka bootstrap server
              properties.setProperty(ProducerConfig.BOOTSTRAP_SERVERS_CONFIG, "127.0.0.1:9092");
20
               properties.setProperty(ProducerConfig.KEY_SERIALIZER_CLASS_CONFIG, StringSerializer.class.getName());
               properties.setProperty(ProducerConfig.VALUE_SERIALIZER_CLASS_CONFIG, StringSerializer.class.getName());
               properties.setProperty(ProducerConfig.ACKS_CONFIG, "all"); // strongest producing guarantee
              properties.setProperty(ProducerConfig.RETRIES CONFIG, "3");
               properties.setProperty(ProducerConfig.LINGER_MS_CONFIG, "1");
26
               // Leverage idempotent producer from Kafka 0.11 !
              properties.setProperty(ProducerConfig.ENABLE_IDEMPOTENCE_CONFIG, "true"); // ensure we don't push duplic
       BankTransactionsProducer > newRandomTransaction()
Run: 

BankTransactionsProducer >
        Producing batch: 289
0
        Producing batch: 290
tů:
       Producing batch: 291
   =
       Producing batch: 292
       Producing batch: 293
   1
Ö
       Producing batch: 294
        Producing batch: 295
G
       Producing batch: 296
        Producing batch: 297
III
        Producing batch: 298
       Producing batch: 299
       Producing batch: 300
       Producing batch: 301
        Producing batch: 302
        Producing batch: 303
       Producing batch: 304
        Producing batch: 305
```

BankBalane Exactly Once App



Kafka Consumer Log

```
stephane
john
stephane
alice
iohn
stephane
alice
iohn
stephane
alice
john
stephane
alice
john
stephane
alice
iohn
stephane
alice
john
stephane
alice
john
stephane
alice
iohn
stephane
alice
iohn
stephane
alice
iohn
stephane
alice
john
stephane
alice
iohn
stephane
alice
john
```