1.   
   
2. **Agenda**:
   1. We’re going to create a **P**oint **O**f **S**ale (POS) simulator
3. 
4. POS is a producer that generates infinite number of random but realistic invoices and sends them to the Kafka Broker.
   1. Diagram

      Description automatically generated
   2. The simulator takes three arguments from the command lines.  
        
      **Produce Speed**: The number of milliseconds that each thread should wait b/w two invoices.  
      If we are creating 10 threads with Produce Speed = 100miliseconds,   
      that means each thread will send 10 msgs in one second and as we have 10 threads, we will generate 100msgs per second.
   3. The only thing that we’re not configuring is the size of each msg.  
      Otherwise this app could be an excellent tool for generating specific workload on your kafka Cluster and performing some load testing and monitoring.
   4. This app will not generate random text string, but JSON formatted realistic invoices.
5. Starter and complete projects have been attached to the lec and this note. Look for **07-pos-simulator-completed.zip**.