Implemention: (a) generate.cpp: To run this program, use the following command: g++ -std=c++11 -o generate generate.cpp ./generate (b) SimpleProducer.java: To run this program, use the following command: javac -cp "<path to kafka>/libs/*" "<path to file inside kafka>SimpleProducer.java" java -cp "<path to kafka>/libs/*": . SimpleProducer (c) SimpleConsumer.java: Run this program in three different terminals:javac -cp "<path to kafka>/libs/*" "<path to file inside kafka>SimpleConsumer.java" java -cp "<path to kafka>/libs/*" "<path to file inside kafka>SimpleConsumer.java" java -cp "<path to kafka>/libs/*": . SimpleConsumer Topic-1

java -cp "<path to kafka>/libs/*": . SimpleConsumer Topic-2

java -cp "<path to kafka>/libs/*": . SimpleConsumer Topic-3

Sample-output:-

```
student@studentVM:-/Downloads/kafka_new
student@studentVM:-S cd Downloads
student@studentVM:-/Downloads cd kafka_new
2ctudent@studentVM:-/Downloads cd kafka_new
2ctudent@studentVM:-/Downloads/kafka_new
```