# My First Hands on with Apache Kafka using Python

**Terms:**
Zookeeper, Server, Producer, Consumer

**Keypoints**:

>Zookeeper stores snapshots of logs in these folders kafka-logs--zookeeper and kafka-logs--server-logs

>Kafka-broker == kafka-server

> maxClientcnxn=1 because we want only 1 server not multiple or else we will face delay

>Producer continuously keeps sendind data to consumer. For consumer to process it efficiently, sleep(5) will halt next data by 5s.

>When zookeeper or kafka-server runs, many logs are generated, those logs are kept in the folder kafka-logs--zookeeper and kafka-logs--server-logs

>Kafka cluster stores messages even if they were already consumed by one of the consumers.

>Same messages may be read multiple times by different consumers.

>If a Consumer is loaded after previous-Producer&Consumer had their data sharing, even the history of that data will be reflected on the new Consumer.

>If a Producer is terminated, nothing changes, other Producers can still send messages/data.

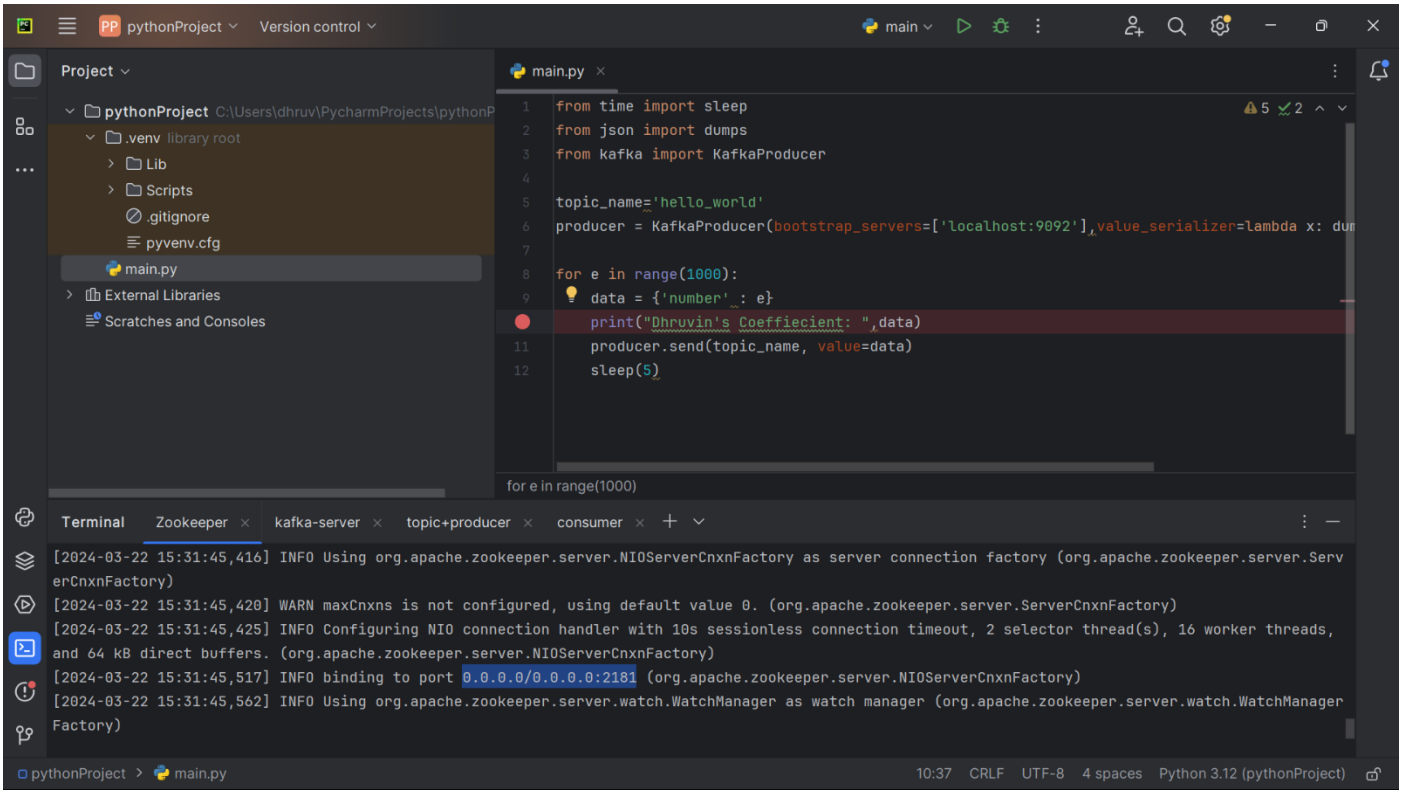
>Multiple consumers can read message from Kafka Topic in **Parallel**.

>Producers and consumers don't know about each other, they are just doing their own job, first producer do not know anything about the second producer or other consumers. Same for other components.

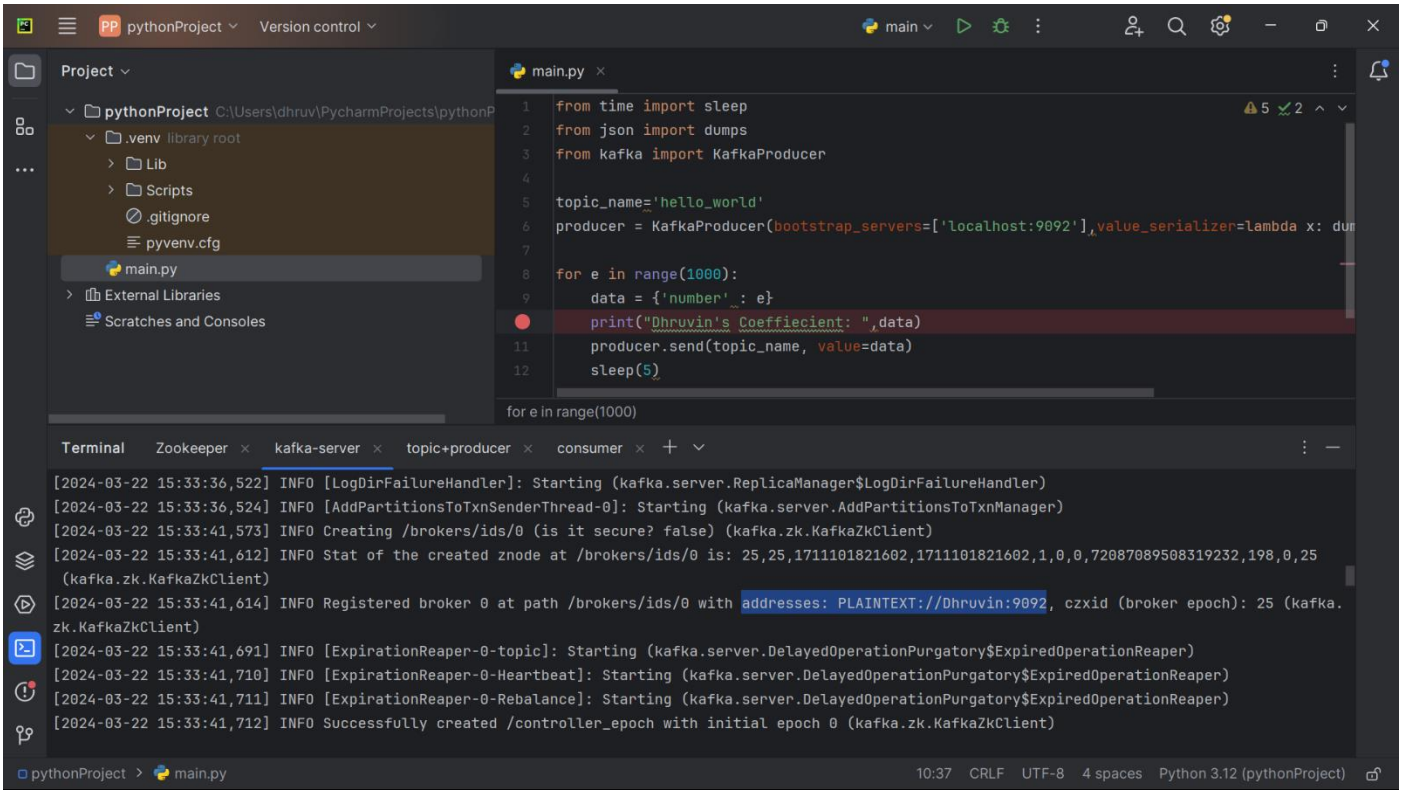
>Consumers do not care about the producers which has produced messages, they only consume messages.

**Screenshots from my project:**

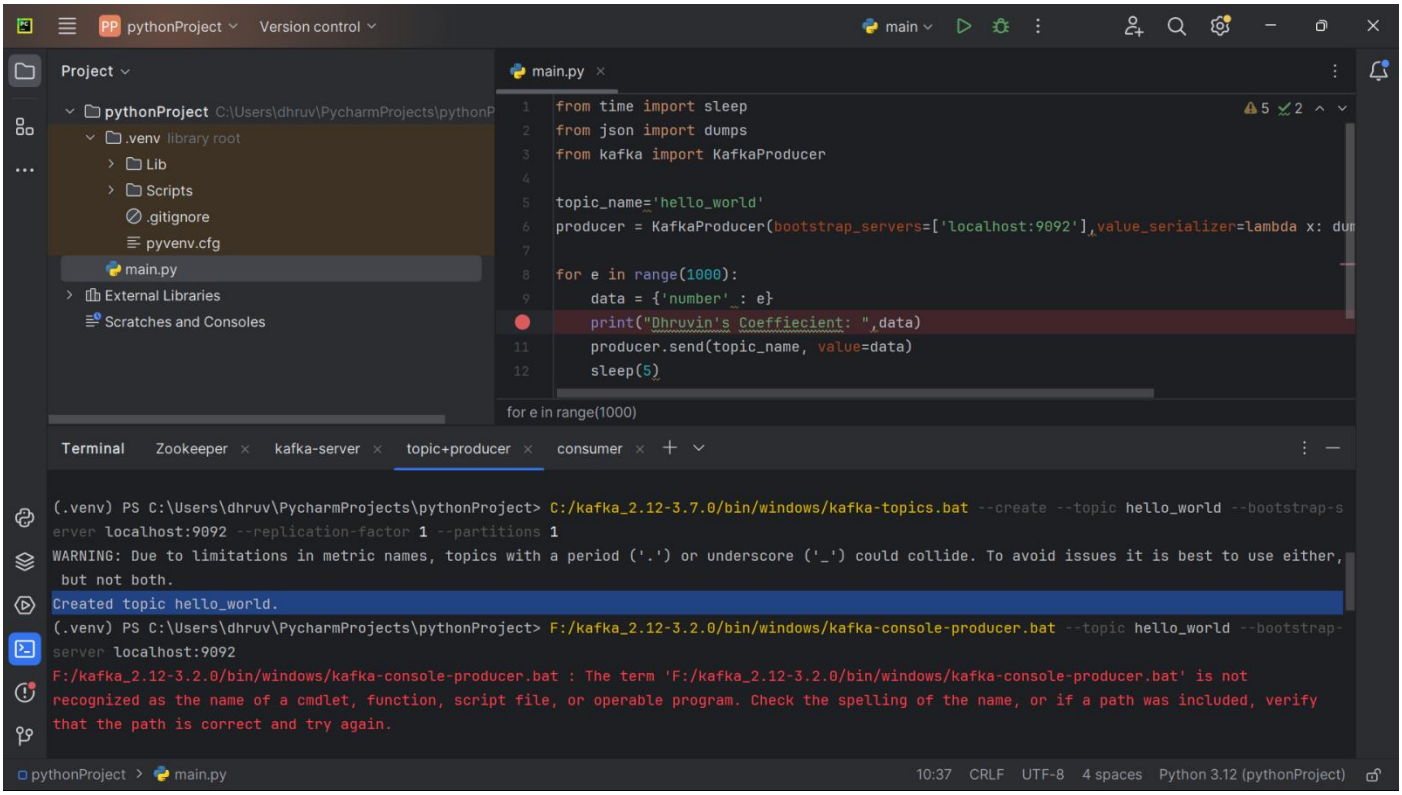
## Zookeeper



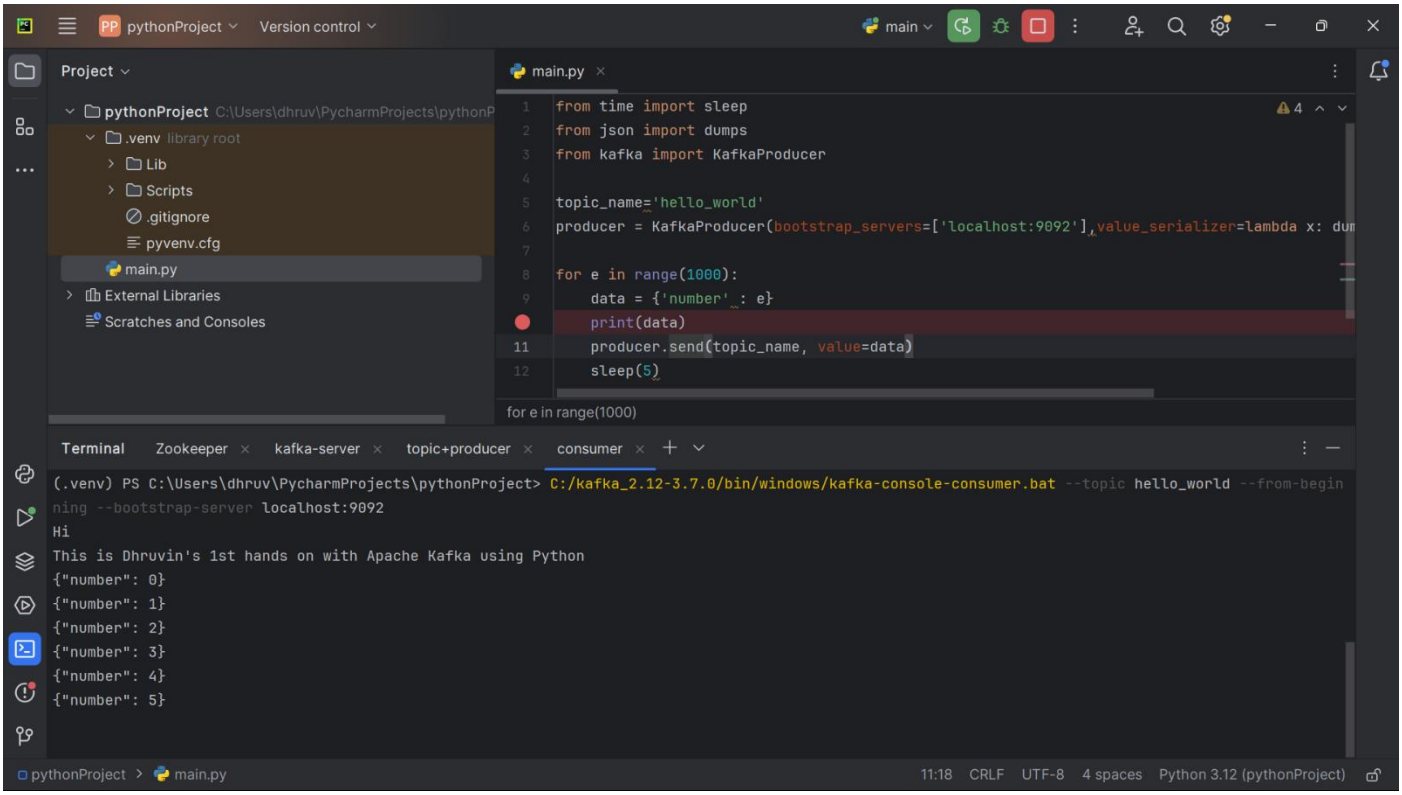

## Kafka-Server/Broker



## Topic+ Producer




## Consumer



## Multiple Producers and Consumers