Group A Lab 4B Apache Kafka

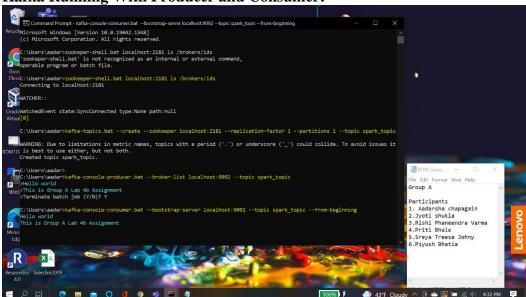
#### **Participants:**

- 1. Aadarsha chapagain
- 2. Jyoti shukla
- 3. Rishi Phaneendra Varma
- 4.Priti Bhale

Code:

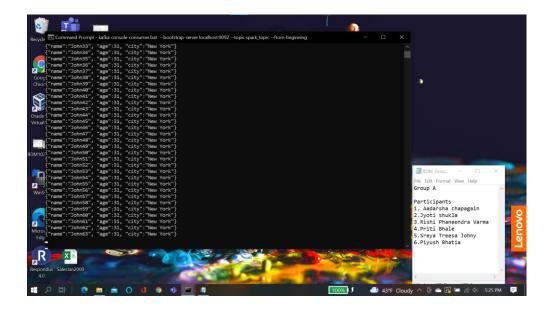
- 5.Sreya Treesa Johny
- 6.Piyush Bhatia

Kafka Running With Producer and Consumer:



# Console consumer /App producer

```
import org.apache.kafka.clients.producer.ProducerRecord;
public class KafkaSampleProducer implements Runnable {
       private static final String TOPIC_NAME = "spark_topic";
       private static long ID;
       public void run() {
              Properties kafkaConfig = getConfig();
              Producer<String, String> producer = new KafkaProducer<String,</pre>
String>(kafkaConfig);
              try {
                      while (true) {
                             Thread.sleep(1 * 1000);
                             String messageKey = "Key" + ID;
                             String messageValue = generateMessageContent();
                             producer.send(new ProducerRecord<String, String>(
                                            TOPIC_NAME, messageKey, messageValue));
                             System.out.println("Producer - " + messageKey + ": Message sent
successfully");
              } catch (Exception e) {
                      e.printStackTrace();
              } finally {
                      producer.close();
       }
       private Properties getConfig() {
              Properties config = new Properties();
              config.put("bootstrap.servers", "localhost:9092");
              config.put("key.serializer",
"org.apache.kafka.common.serialization.StringSerializer");
              config.put("value.serializer",
"org.apache.kafka.common.serialization.StringSerializer");
              return config;
       }
       private static String generateMessageContent() {
              String name = "John" + ID++;
              return "{\"name\":\"" + name + "\", \"age\":31, \"city\":\"New York\"}";
       }
}
```



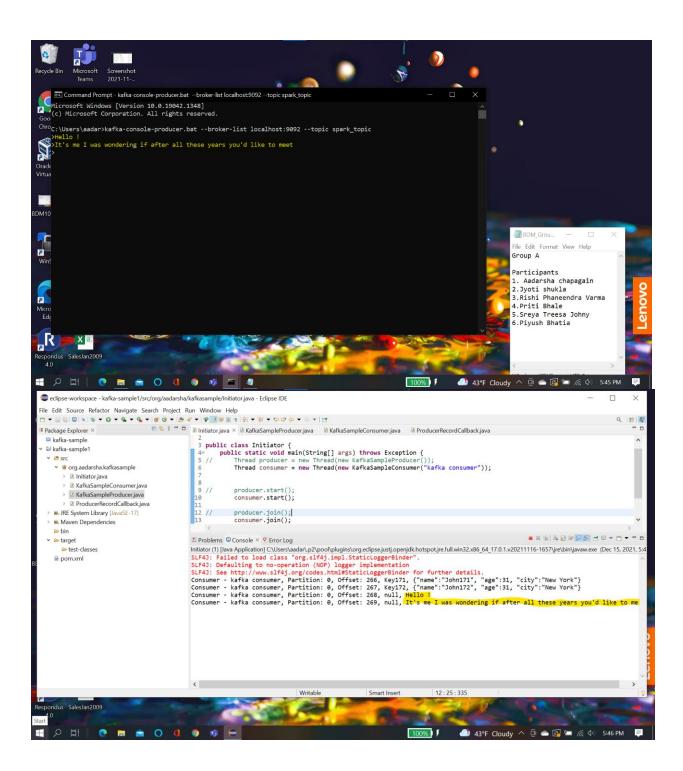
# **Console producer /App consumer**

## Code:

Initiator.java

```
package org.aadarsha.kafkasample;

public class Initiator {
        public static void main(String[] args) throws Exception {
            Thread consumer = new Thread(new KafkaSampleConsumer("kafka consumer"));
            consumer.start();
            consumer.join();
        }
}
```



### App producer /App consumer

#### Code:

```
Initiator.java
```

```
package org.aadarsha.kafkasample;

public class Initiator {
    public static void main(String[] args) throws Exception {
        Thread producer = new Thread(new KafkaSampleProducer());
        Thread consumer = new Thread(new KafkaSampleConsumer("kafka consumer"));

        producer.start();
        consumer.start();

        producer.join();
        consumer.join();
    }
}
```

