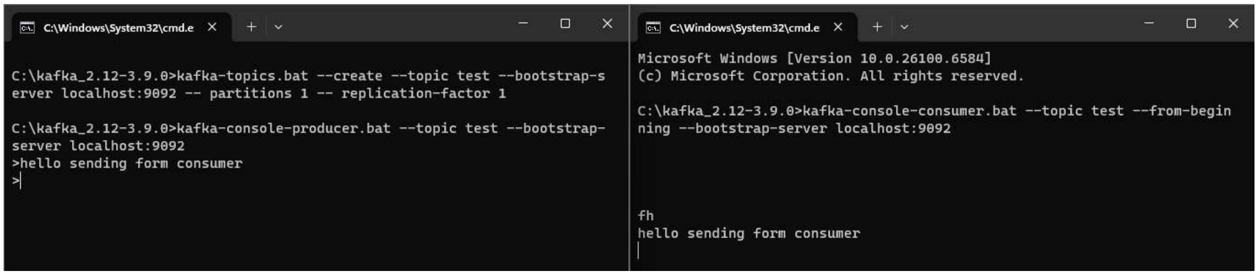
Rudraksh Chourey Assignment 5

Producer Consumer :



```
C:\kafka_2.12-3.9.0>kafka-topics.bat --create --topic test --bootstrap-s
erver localhost:9092 -- partitions 1 -- replication-factor 1

C:\kafka_2.12-3.9.0>kafka-console-producer.bat --topic test --bootstrap-
server localhost:9092
>hello sending form consumer
>
```

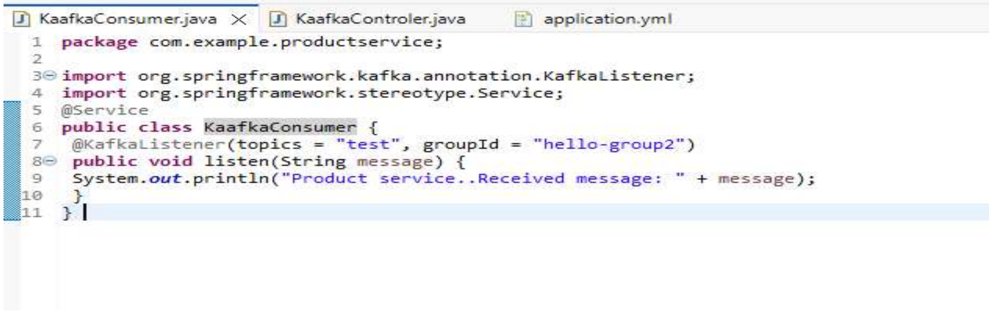
```
Microsoft Windows [Version 10.0.26100.6584]
(c) Microsoft Corporation. All rights reserved.

C:\kafka_2.12-3.9.0>kafka-console-consumer.bat --topic test --from-begin
ning --bootstrap-server localhost:9092



fh
hello sending form consumer
```

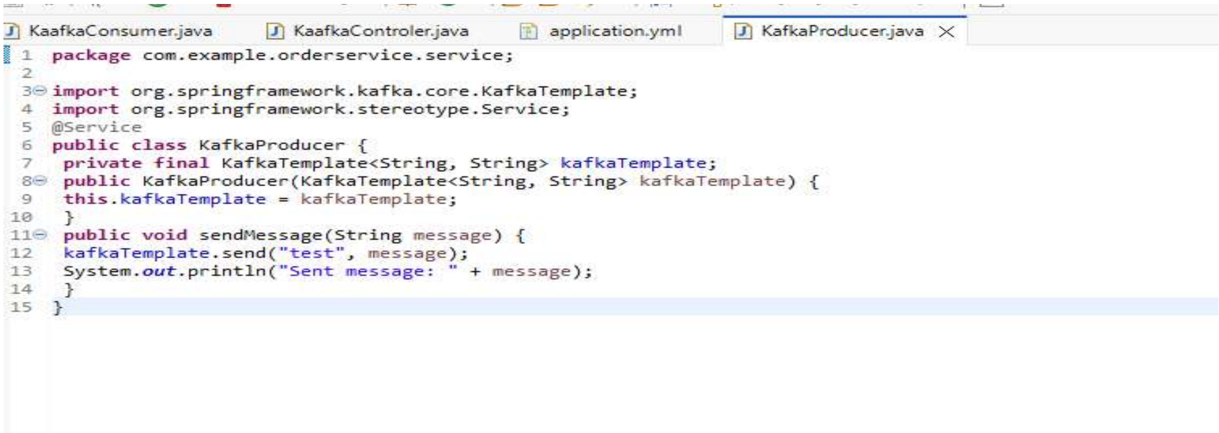
Order Kafka Consumer:



```java
package com.example.productservice;

import org.springframework.kafka.annotation.KafkaListener;
import org.springframework.stereotype.Service;
@Service
public class KaafkaConsumer {
 @KafkaListener(topics = "test", groupId = "hello-group2")
 public void listen(String message) {
 System.out.println("Product service..Received message: " + message);
 }
}
```

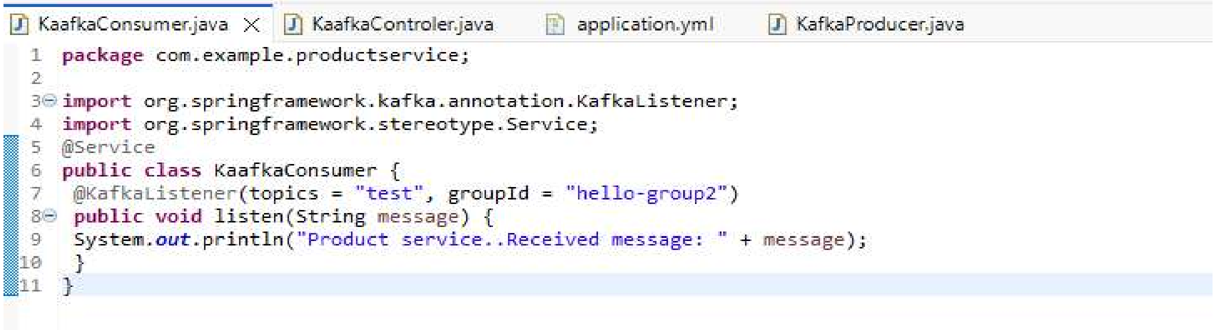
Order Kafka Producer:



```java
package com.example.orderservice.service;

import org.springframework.kafka.core.KafkaTemplate;
import org.springframework.stereotype.Service;
@Service
public class KafkaProducer {
 private final KafkaTemplate<String, String> kafkaTemplate;
 public KafkaProducer(KafkaTemplate<String, String> kafkaTemplate) {
 this.kafkaTemplate = kafkaTemplate;
 }
 public void sendMessage(String message) {
 kafkaTemplate.send("test", message);
 System.out.println("Sent message: " + message);
 }
}
```

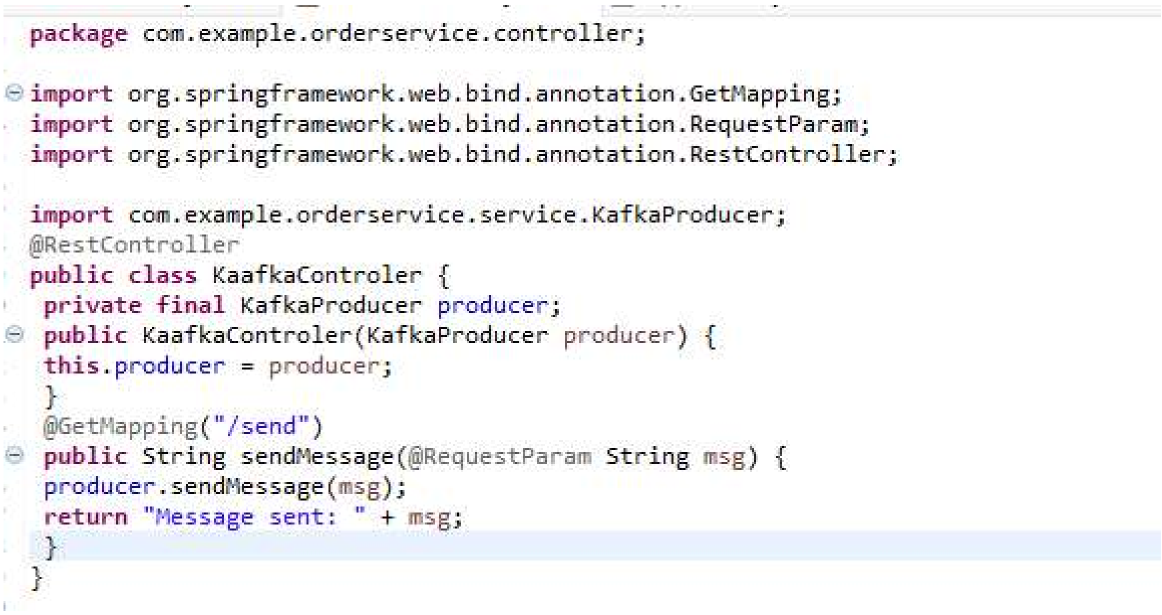
Product Kafka Consumer:



```java
package com.example.productservice;

import org.springframework.kafka.annotation.KafkaListener;
import org.springframework.stereotype.Service;
@Service
public class KafkaConsumer {
 @KafkaListener(topics = "test", groupId = "hello-group2")
 public void listen(String message) {
 System.out.println("Product service..Received message: " + message);
 }
}
```

Order Kafka Controller:

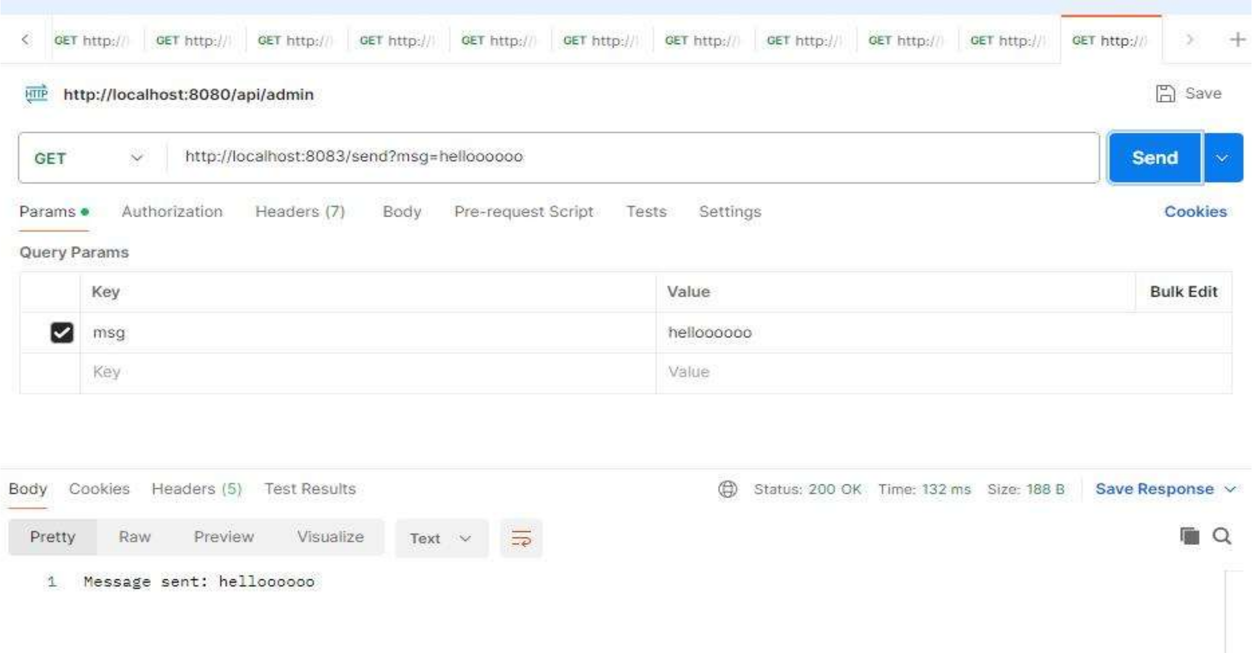


```java
package com.example.orderservice.controller;

import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;

import com.example.orderservice.service.KafkaProducer;
@RestController
public class KaafkaControler {
 private final KafkaProducer producer;
 public KaafkaControler(KafkaProducer producer) {
 this.producer = producer;
 }
 @GetMapping("/send")
 public String sendMessage(@RequestParam String msg) {
 producer.sendMessage(msg);
 return "Message sent: " + msg;
 }
}
```

Output:



http://localhost:8080/api/admin

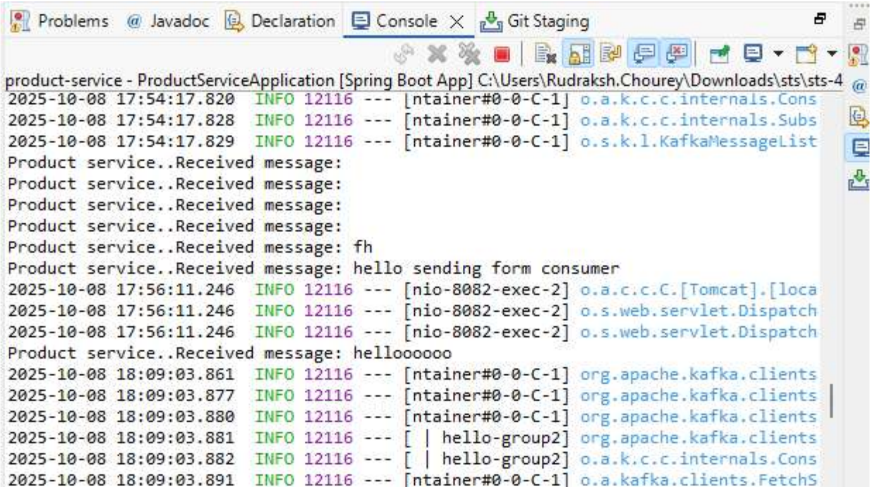
GET http://localhost:8083/send?msg=hellooooo

Query Params

	Key	Value
☑	msg	hellooooo
	Key	Value

Status: 200 OK Time: 132 ms Size: 188 B

```
1  Message sent: hellooooo
```



product-service - ProductServiceApplication [Spring Boot App] C:\Users\Rudraksh.Chourey\Downloads\sts\sts-4

```
2025-10-08 17:54:17.820  INFO 12116 --- [ntainer#0-0-C-1] o.a.k.c.c.internals.Cons
2025-10-08 17:54:17.828  INFO 12116 --- [ntainer#0-0-C-1] o.a.k.c.c.internals.Subs
2025-10-08 17:54:17.829  INFO 12116 --- [ntainer#0-0-C-1] o.s.k.l.KafkaMessageList
Product service..Received message:
Product service..Received message:
Product service..Received message:
Product service..Received message:
Product service..Received message: fh
Product service..Received message: hello sending form consumer
2025-10-08 17:56:11.246  INFO 12116 --- [nio-8082-exec-2] o.a.c.c.C.[Tomcat].[loca
2025-10-08 17:56:11.246  INFO 12116 --- [nio-8082-exec-2] o.s.web.servlet.Dispatch
2025-10-08 17:56:11.246  INFO 12116 --- [nio-8082-exec-2] o.s.web.servlet.Dispatch
Product service..Received message: hellooooo
2025-10-08 18:09:03.861  INFO 12116 --- [ntainer#0-0-C-1] org.apache.kafka.clients
2025-10-08 18:09:03.877  INFO 12116 --- [ntainer#0-0-C-1] org.apache.kafka.clients
2025-10-08 18:09:03.880  INFO 12116 --- [ntainer#0-0-C-1] org.apache.kafka.clients
2025-10-08 18:09:03.881  INFO 12116 --- [ | hello-group2] org.apache.kafka.clients
2025-10-08 18:09:03.882  INFO 12116 --- [ | hello-group2] o.a.k.c.c.internals.Cons
2025-10-08 18:09:03.891  INFO 12116 --- [ntainer#0-0-C-1] o.a.kafka.clients.FetchS
```