```
In [1]:
# import statements
from time import sleep
from json import dumps
from kafka import KafkaProducer
import random
import datetime as dt
def publish_message(producer_instance, topic_name, data):
       producer_instance.send(topic_name, value=data)
       print('Message published successfully. Data: ' + str(data))
    except Exception as ex:
       print('Exception in publishing message.')
       print(str(ex))
def connect_kafka_producer():
   _producer = None
    try:
       _producer = KafkaProducer(bootstrap_servers=['localhost:9092'],
                                 value_serializer=lambda x:
dumps(x).encode('ascii'),
   Assignment Project Exam Help
        print('Exception while connecting Kafka.')
                 https://powcoder.com
       return _producer
if __name__ == '_mAnd'd WeChat powcoder
    topic = 'Week9-Topic2'
    print('Publishing records..')
    producer01 = connect_kafka_producer()
    producer02 = connect_kafka_producer()
    producer03 = connect_kafka_producer()
   for e in range(100):
       datetime = str(dt.datetime.now().strftime("%X"))[-5:]
       data1 = {'datetime': datetime, 'producer05-1' : random.randrange(0,100)}
       publish_message(producer01, topic, data1)
       data2 = {'datetime': datetime, 'producer05-2' : random.randrange(0,100)}
       publish_message(producer02, topic, data2)
       data3 = {'datetime': datetime, 'producer05-3' : random.randrange(0,100)}
       publish_message(producer03, topic, data3)
       sleep(1)
Publishing records...
Message published successfully. Data: {'datetime': '42:31', 'producer05-1': 55}
Message published successfully. Data: {'datetime': '42:31', 'producer05-2': 28}
Message published successfully. Data: {'datetime': '42:31', 'producer05-3': 31}
Message published successfully. Data: {'datetime': '42:33', 'producer05-1': 83}
Message published successfully. Data: {'datetime': '42:33', 'producer05-2': 55}
Message published successfully. Data: {'datetime': '42:33', 'producer05-3': 4}
Message published successfully. Data: {'datetime': '42:34', 'producer05-1': 37}
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Message published successfully. Data: {'datetime': '42:34',
                                                             'producer05-2': 61}
Message published successfully. Data: {'datetime': '42:34',
                                                             'producer05-3': 58}
Message published successfully. Data: {'datetime': '42:35',
                                                             'producer05-1': 69}
Message published successfully. Data: {'datetime': '42:35',
                                                             'producer05-2': 28}
Message published successfully. Data: {'datetime': '42:35',
                                                             'producer05-3': 10}
Message published successfully. Data: {'datetime': '42:36',
                                                             'producer05-1': 10}
Message published successfully. Data: {'datetime': '42:36',
                                                             'producer05-2': 13}
Message published successfully. Data: {'datetime': '42:36',
                                                             'producer05-3': 12}
Message published successfully. Data: {'datetime': '42:37',
                                                             'producer05-1': 12}
Message published successfully. Data: {'datetime': '42:37',
                                                             'producer05-2': 90}
Message published successfully. Data: {'datetime': '42:37',
                                                             'producer05-3': 47}
Message published successfully. Data: {'datetime': '42:38',
                                                             'producer05-1': 16}
Message published successfully. Data: {'datetime': '42:38',
                                                             'producer05-2': 47}
Message published successfully. Data: {'datetime': '42:38',
                                                             'producer05-3': 11}
Message published successfully. Data: {'datetime': '42:39',
                                                             'producer05-1': 93}
Message published successfully. Data: {'datetime': '42:39',
                                                             'producer05-2': 84}
Message published successfully. Data: {'datetime': '42:39',
                                                             'producer05-3': 49}
Message published successfully. Data: {'datetime': '42:40',
                                                             'producer05-1': 54}
Message published successfully. Data: {'datetime': '42:40',
                                                             'producer05-2': 34}
Message published successfully. Data: {'datetime': '42:40',
                                                             'producer05-3': 31}
Message published successfully. Data: {'datetime': '42:41',
                                                             'producer05-1': 50}
Message published successfully. Data: {'datetime': '42:41',
                                                             'producer05-2': 53}
Message published successfully. Data: {'datetime': '42:41',
                                                             'producer05-3': 5}
Message published successfully (Date time )
                                                             ploducer05-1': 75}
Message published soccessfully. Data: { date(ime . 42:42',
                                                              producer05-2': 56}
Message published successfully. Data: {'datetime': '42:42',
                                                             'producer05-3': 46}
Message published successfully, Data: {'datetime': '42:43',
                                                             'producer05-1': 88}
Message published successfully be Western 1997
                                                             'producer05-2': 42}
Message published successfully. Data: {'datetime': '42:43',
                                                             'producer05-3': 89}
Message published successfully. Data: {'datetime': '42:44',
                                                             'producer05-1': 84}
Message published successfully./para: { datetime : 1,42:44!
                                                             producer05-2': 75
Message published successfully! Data: { date ime ! 1 42:44 ,
                                                              producer05-3': 31}
Message published successfully. Data: {'datetime': '42:45',
                                                             'producer05-1': 16}
Message published successfully. Data: {'datetime': '42:45',
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Message published successfully. Data: {'datetime': '42:45',
                                                             'producer05-3': 4}
Message published successfully. Data: {'datetime': '42:46',
                                                             'producer05-1': 46}
Message published successfully. Data: {'datetime': '42:46',
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Message published successfully. Data: {'datetime': '42:46',
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Message published successfully. Data: {'datetime': '42:47',
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Message published successfully. Data: {'datetime': '42:47',
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Message published successfully. Data: {'datetime': '42:48',
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Message published successfully. Data: {'datetime': '42:48',
                                                             'producer05-2': 83}
Message published successfully. Data: {'datetime': '42:48',
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Message published successfully. Data: {'datetime': '42:49',
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Message published successfully. Data: {'datetime': '42:49',
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Message published successfully. Data: {'datetime': '42:49',
                                                             'producer05-3': 88}
Message published successfully. Data: {'datetime': '42:50',
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Message published successfully. Data: {'datetime': '42:50',
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Message published successfully. Data: {'datetime': '42:50',
                                                             'producer05-3': 63}
Message published successfully. Data: {'datetime': '42:51',
                                                             'producer05-1': 36}
Message published successfully. Data: {'datetime': '42:51',
                                                             'producer05-2': 3}
Message published successfully. Data: {'datetime': '42:51',
                                                             'producer05-3': 32}
Message published successfully. Data: {'datetime': '42:52',
                                                             'producer05-1': 43}
Message published successfully. Data: {'datetime': '42:52', 'producer05-2': 66}
```

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Message published successfully. Data: {'datetime': '42:52',
                                                             'producer05-3': 75}
Message published successfully. Data: {'datetime': '42:53',
                                                             'producer05-1': 34}
Message published successfully. Data: {'datetime': '42:53',
                                                             'producer05-2': 84}
Message published successfully. Data: {'datetime': '42:53',
                                                             'producer05-3': 51}
Message published successfully. Data: {'datetime': '42:54',
                                                             'producer05-1': 49}
Message published successfully. Data: {'datetime': '42:54',
                                                             'producer05-2': 36}
Message published successfully. Data: {'datetime': '42:54',
                                                             'producer05-3': 37}
Message published successfully. Data: {'datetime': '42:55',
                                                             'producer05-1': 65}
Message published successfully. Data: {'datetime': '42:55',
                                                             'producer05-2': 23}
Message published successfully. Data: {'datetime': '42:55',
                                                             'producer05-3': 0}
Message published successfully. Data: {'datetime': '42:56',
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Message published successfully. Data: {'datetime': '42:56',
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Message published successfully. Data: {'datetime': '42:56',
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Message published successfully. Data: {'datetime': '42:57',
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Message published successfully. Data: {'datetime': '42:57',
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Message published successfully. Data: {'datetime': '42:57',
                                                             'producer05-3': 34}
Message published successfully. Data: {'datetime': '42:58',
                                                             'producer05-1': 90}
Message published successfully. Data: {'datetime': '42:58',
                                                             'producer05-2': 66}
Message published successfully. Data: {'datetime': '42:58',
                                                             'producer05-3': 17}
Message published successfully. Data: {'datetime': '42:59',
                                                             'producer05-1': 42}
Message published successfully. Data: {'datetime': '42:59',
                                                             'producer05-2': 16}
Message published successfully. Data: {'datetime': '42:59',
                                                             'producer05-3': 52}
Message published successfully. Data: {'datetime': '43:00',
                                                             'producer05-1': 43}
Message published successfully (Date time )
                                                             ploducer05-2': 6}
Message published soccessfully. Data: { date(ime . 43.00',
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Message published successfully. Data: {'datetime': '43:01',
                                                             'producer05-1': 19}
Message published successfully, Data: {'datetime': '43:01',
                                                             'producer05-2': 51}
Message published successfully be Western 2011
                                                             'producer05-3': 9}
Message published successfully. Data: {'datetime': '43:02',
                                                             'producer05-1': 49}
Message published successfully. Data: {'datetime': '43:02',
                                                             'producer05-2': 73}
Message published successfully./para: 12'datetime':- '43:02'
                                                             'producer05-3': 19}
Message published successfully! Data: { date ime ! 143:03 }
                                                              producer05-1': 97}
Message published successfully. Data: {'datetime': '43:03',
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Message published successfully. Data: {'datetime': '43:03',
                                                             'producer05-3': 80}
Message published successfully. Data: {'datetime': '43:04',
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Message published successfully. Data: {'datetime': '43:04',
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Message published successfully. Data: {'datetime': '43:04',
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Message published successfully. Data: {'datetime': '43:05',
                                                             'producer05-1': 58}
Message published successfully. Data: {'datetime': '43:05',
                                                             'producer05-2': 88}
Message published successfully. Data: {'datetime': '43:05',
                                                             'producer05-3': 88}
Message published successfully. Data: {'datetime': '43:06',
                                                             'producer05-1': 82}
Message published successfully. Data: {'datetime': '43:06',
                                                             'producer05-2': 85}
Message published successfully. Data: {'datetime': '43:06',
                                                             'producer05-3': 85}
Message published successfully. Data: {'datetime': '43:07',
                                                             'producer05-1': 31}
Message published successfully. Data: {'datetime': '43:07',
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Message published successfully. Data: {'datetime': '43:07',
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Message published successfully. Data: {'datetime': '43:08',
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Message published successfully. Data: {'datetime': '43:08',
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Message published successfully. Data: {'datetime': '43:08',
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Message published successfully. Data: {'datetime': '43:09',
                                                             'producer05-1': 92}
Message published successfully. Data: {'datetime': '43:09',
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Message published successfully. Data: {'datetime': '43:09',
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Message published successfully. Data: {'datetime': '43:10',
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Message published successfully. Data: {'datetime': '43:10', 'producer05-2': 72}
Message published successfully. Data: {'datetime': '43:10', 'producer05-3': 80}
```

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Message published successfully. Data: {'datetime': '43:11',
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Message published successfully. Data: {'datetime': '43:11',
                                                             'producer05-2': 60}
Message published successfully. Data: {'datetime': '43:11',
                                                             'producer05-3': 16}
Message published successfully. Data: {'datetime': '43:12',
                                                             'producer05-1': 93}
Message published successfully. Data: {'datetime': '43:12',
                                                             'producer05-2': 40}
Message published successfully. Data: {'datetime': '43:12',
                                                             'producer05-3': 64}
Message published successfully. Data: {'datetime': '43:13',
                                                             'producer05-1': 9}
Message published successfully. Data: {'datetime': '43:13',
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Message published successfully. Data: {'datetime': '43:13',
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Message published successfully. Data: {'datetime': '43:14',
                                                             'producer05-1': 95}
Message published successfully. Data: {'datetime': '43:14',
                                                             'producer05-2': 73}
Message published successfully. Data: {'datetime': '43:14',
                                                             'producer05-3': 79}
Message published successfully. Data: {'datetime': '43:15',
                                                             'producer05-1': 22}
Message published successfully. Data: {'datetime': '43:15',
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Message published successfully. Data: {'datetime': '43:15',
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Message published successfully. Data: {'datetime': '43:16',
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Message published successfully. Data: {'datetime': '43:16',
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Message published successfully. Data: {'datetime': '43:16',
                                                             'producer05-3': 7}
Message published successfully. Data: {'datetime': '43:17',
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Message published successfully. Data: {'datetime': '43:17',
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Message published successfully. Data: {'datetime': '43:17',
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Message published successfully. Data: {'datetime': '43:18',
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Message published successfully (Date time )
                                                             p oducer05-3': 14}
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Message published successfully. Data: {'datetime': '43:19',
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Message published successfully, Data: {'datetime': '43:19',
                                                             'producer05-3': 31}
Message published successfully be Western 1: 40:401
                                                             'producer05-1': 87}
Message published successfully. Data: {'datetime': '43:20',
                                                             'producer05-2': 51}
Message published successfully. Data: {'datetime': '43:20',
                                                             'producer05-3': 20}
Message published successfully./para: 12'datetime':-'43:21'
                                                             producer05-1': 90}
Message published successfully! Data: { date ime ! 143.21 ,
                                                              producer05-2': 62}
Message published successfully. Data: {'datetime': '43:21',
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Message published successfully. Data: {'datetime': '43:22',
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                                                             'producer05-2': 86}
Message published successfully. Data: {'datetime': '43:22',
Message published successfully. Data: {'datetime': '43:22',
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Message published successfully. Data: {'datetime': '43:23',
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Message published successfully. Data: {'datetime': '43:23',
                                                             'producer05-2': 20}
Message published successfully. Data: {'datetime': '43:23',
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Message published successfully. Data: {'datetime': '43:24',
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Message published successfully. Data: {'datetime': '43:24',
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Message published successfully. Data: {'datetime': '43:24',
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Message published successfully. Data: {'datetime': '43:25',
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Message published successfully. Data: {'datetime': '43:25',
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Message published successfully. Data: {'datetime': '43:25',
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Message published successfully. Data: {'datetime': '43:26',
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Message published successfully. Data: {'datetime': '43:26',
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Message published successfully. Data: {'datetime': '43:26',
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Message published successfully. Data: {'datetime': '43:27',
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Message published successfully. Data: {'datetime': '43:27',
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Message published successfully. Data: {'datetime': '43:27',
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Message published successfully. Data: {'datetime': '43:28',
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Message published successfully. Data: {'datetime': '43:28', 'producer05-3': 49}
Message published successfully. Data: {'datetime': '43:29', 'producer05-1': 53}
```

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Message published successfully. Data: {'datetime': '43:29',
                                                             'producer05-2': 92}
Message published successfully. Data: {'datetime': '43:29',
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Message published successfully. Data: {'datetime': '43:30',
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Message published successfully. Data: {'datetime': '43:30',
                                                             'producer05-2': 14}
Message published successfully. Data: {'datetime': '43:30',
                                                             'producer05-3': 19}
Message published successfully. Data: {'datetime': '43:31',
                                                             'producer05-1': 52}
Message published successfully. Data: {'datetime': '43:31',
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Message published successfully. Data: {'datetime': '43:31',
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Message published successfully. Data: {'datetime': '43:32',
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Message published successfully. Data: {'datetime': '43:32',
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Message published successfully. Data: {'datetime': '43:32',
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Message published successfully. Data: {'datetime': '43:33',
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Message published successfully. Data: {'datetime': '43:33',
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Message published successfully. Data: {'datetime': '43:33',
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Message published successfully. Data: {'datetime': '43:34',
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Message published successfully. Data: {'datetime': '43:34',
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Message published successfully. Data: {'datetime': '43:34',
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Message published successfully. Data: {'datetime': '43:35',
                                                             'producer05-1': 10}
Message published successfully. Data: {'datetime': '43:35',
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Message published successfully. Data: {'datetime': '43:35',
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Message published successfully. Data: {'datetime': '43:36',
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Message published successfully. Data: {'datetime': '43:36',
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Message published successfully. Data: {'datetime': '43:36',
                                                             'producer05-3': 5}
Message published successfully (Date time )
                                                              ploducer05-1': 16}
Message published successfully: Data: { datetime : 43:37
                                                              produc<u>e</u>r05-2': 2}
Message published successfully. Data: {'datetime': '43:37',
                                                             'producer05-3': 16}
Message published successfully, Data: {'datetime': '43:38',
                                                             'producer05-1': 41}
Message published successfully be Western 1: 40:301
                                                             'producer05-2': 14}
Message published successfully. Data: {'datetime': '43:38',
                                                             'producer05-3': 74}
Message published successfully. Data: {'datetime': '43:39',
                                                             'producer05-1': 33}
Message published successfully./para: [{'datetime'; - ',43;39']
                                                             'producer05-2': 73}
Message published successfully! Data: { date ime ! 143.39 }
                                                              producer05-3': 46}
Message published successfully. Data: {'datetime': '43:40',
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Message published successfully. Data: {'datetime': '43:40',
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Message published successfully. Data: {'datetime': '43:40',
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Message published successfully. Data: {'datetime': '43:41',
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Message published successfully. Data: {'datetime': '43:41',
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Message published successfully. Data: {'datetime': '43:41',
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Message published successfully. Data: {'datetime': '43:42',
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Message published successfully. Data: {'datetime': '43:42',
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Message published successfully. Data: {'datetime': '43:42',
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Message published successfully. Data: {'datetime': '43:43',
                                                             'producer05-1': 67}
Message published successfully. Data: {'datetime': '43:43',
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Message published successfully. Data: {'datetime': '43:43',
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Message published successfully. Data: {'datetime': '43:44',
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Message published successfully. Data: {'datetime': '43:44',
                                                             'producer05-2': 11}
Message published successfully. Data: {'datetime': '43:44',
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Message published successfully. Data: {'datetime': '43:45',
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Message published successfully. Data: {'datetime': '43:45',
                                                             'producer05-2': 4}
Message published successfully. Data: {'datetime': '43:45',
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Message published successfully. Data: {'datetime': '43:46',
                                                             'producer05-1': 28}
Message published successfully. Data: {'datetime': '43:46',
                                                             'producer05-2': 68}
Message published successfully. Data: {'datetime': '43:46', 'producer05-3': 86}
Message published successfully. Data: {'datetime': '43:47', 'producer05-1': 91}
Message published successfully. Data: {'datetime': '43:47', 'producer05-2': 60}
```

```
Message published successfully. Data: {'datetime': '43:47',
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Message published successfully. Data: {'datetime': '43:48',
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Message published successfully. Data: {'datetime': '43:48',
                                                             'producer05-2': 26}
Message published successfully. Data: {'datetime': '43:48',
                                                             'producer05-3': 84}
Message published successfully. Data: {'datetime': '43:49',
                                                             'producer05-1': 12}
Message published successfully. Data: {'datetime': '43:49',
                                                             'producer05-2': 52}
                                                             'producer05-3': 13}
Message published successfully. Data: {'datetime': '43:49',
Message published successfully. Data: {'datetime': '43:50',
                                                             'producer05-1': 91}
Message published successfully. Data: {'datetime': '43:50',
                                                             'producer05-2': 5}
Message published successfully. Data: {'datetime': '43:50',
                                                             'producer05-3': 4}
Message published successfully. Data: {'datetime': '43:51',
                                                             'producer05-1': 38}
Message published successfully. Data: {'datetime': '43:51',
                                                             'producer05-2': 53}
Message published successfully. Data: {'datetime': '43:51',
                                                             'producer05-3': 78}
Message published successfully. Data: {'datetime': '43:52',
                                                             'producer05-1': 89}
Message published successfully. Data: {'datetime': '43:52',
                                                             'producer05-2': 97}
Message published successfully. Data: {'datetime': '43:52',
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Message published successfully. Data: {'datetime': '43:53',
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Message published successfully. Data: {'datetime': '43:53',
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Message published successfully. Data: {'datetime': '43:53',
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Message published successfully. Data: {'datetime': '43:54',
                                                             'producer05-1': 34}
Message published successfully. Data: {'datetime': '43:54',
                                                             'producer05-2': 87}
Message published successfully. Data: {'datetime': '43:54',
                                                             'producer05-3': 88}
Message published successfully. Data: {'datetime': '43:55',
                                                             'producer05-1': 18}
Message published successfully (Date time )
                                                             p oducer05-2': 15}
Message published soccessfully. Data: { date(ime : 43.55',
                                                              producer05-3': 36}
Message published successfully. Data: {'datetime': '43:56',
                                                             'producer05-1': 98}
Message published successfully, Data: {'datetime': '43:56',
                                                             'producer05-2': 86}
Message published successfully be Western 1: 40:461
                                                             'producer05-3': 79}
Message published successfully. Data: {'datetime': '43:57',
                                                             'producer05-1': 57}
Message published successfully. Data: {'datetime': '43:57',
                                                             'producer05-2': 81}
Message published successfully./Data: [4] datetime: 43:57
                                                             'producer05-3': 40}
Message published successfully! Data: { date ime ! 143.58 }
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Message published successfully. Data: {'datetime': '43:58',
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In [ ]:
In []:
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