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In []:
#Requires python geohash
#Install geohash using !pip install python-geohash
# import statements
from time import sleep
from ison import dumps
from kafka import KafkaProducer
import random
import datetime as dt
import geohash
def publish_message(producer_instance, topic_name, key, value):
         try:
                  key_bytes = bytes(key, encoding='utf-8')
                 value_bytes = bytes(value, encoding='utf-8')
                 producer_instance.send(topic_name, key=key_bytes, value=value_bytes)
                 producer_instance.flush()
                  print('Data: ' + str(data))
        except Exception as ex:
                 print('Exception in publishing message.')
                 print(str(ex))
def connect_kafka_producer():
        _producAssignment Project Exam Help
        try:
                 _producer = KafkaProducer(bootstrap_servers=['localhost:9092'],
                                                                            api_version_{\overline{}}(0, 10))
        except Exception to Except Exception to Except Except Exception to Except Excep
                 print('Exception while connecting Kafka.')
                 print(str(ex))
                 return _producerd WeChat powcoder
        finally:
In [ ]:
topic = 'Terra'
print('Publishing records..')
producer = connect_kafka_producer()
terra_records = ["-36.704,144.252,89.5,90,66",
"-36.748, 145.486, 21, 99, 46",
"-36.216,146.388,19.9,81,59",
"-36.218, 146.377, 22.5, 83, 60",
"-37.232,143.252,30.5,80,55",
"-36.822,143.854,22,83,59",
"-36.821, 143.865, 215.2, 100, 122",
"-36.812,143.863,94,100,93",
"-36.819, 143.877, 55.3, 95, 78",
"-36.813,143.852,36.2,90,69"]
terra_header =
['latitude','longitude','power','confidence','surface_temperature_celcius']
for e in range(1000):
         record = terra_records[random.randrange(0,10)]
         key = geohash.encode(float(record[1:7]), float(record[9:15]), 3)
        data = str(record)
         publish_message(producer, topic, key, data)
         sleep(2)
In [ ]:
```

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