1. Lab Task:

- 1. Complete the **Kafka Producer** in the file LT1-Producer.ipynb. Here you are required to address the following conditions:
 - Read the data frome the csv file clickstream.csv continiously.
 - · Add the current timestamp to the data being sent
 - Publish 5-10 number of rows randomly every 5 seconds to a topic named:clickstream.

```
In [ ]:
# import statements
from time import sleep
from json import dumps
from kafka import KafkaProducer
import random
import datetime as dt
import csv
def read_csv(fileName):
    '''Read the CSV file clickstream.csv'''
    '''you can use csv.DictReader'''
    list = []
   with open(fileName, 'rt') as f:
       real Stignment Project Exam Help
       for row in Peader:
           list.append(row)
    return list
                 https://powcoder.com
def publish_message(producer_instance, topic_name, data):
    try:
       producer_in_and selvte c_rana_t down wcoder
       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'),
                                 api_version=(0, 10)
   except Exception as ex:
       print('Exception while connecting Kafka.')
       print(str(ex))
    finally:
       return _producer
if __name__ == '__main__':
    topic = 'clickstream'
    cRows = read_csv('clickstream.csv')
    print('Publishing records..')
```

```
producer = connect_kafka_producer()

#WRITE THE CODE HERE

#A while True loop to infinitely loop through records

#A random function to get random number of rows between 5-10 use
random.randint(5,10)

#Create the data object to publish with the selected rows, also include the
current timestamp as ts

#Sleep for 5 seconds
```

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