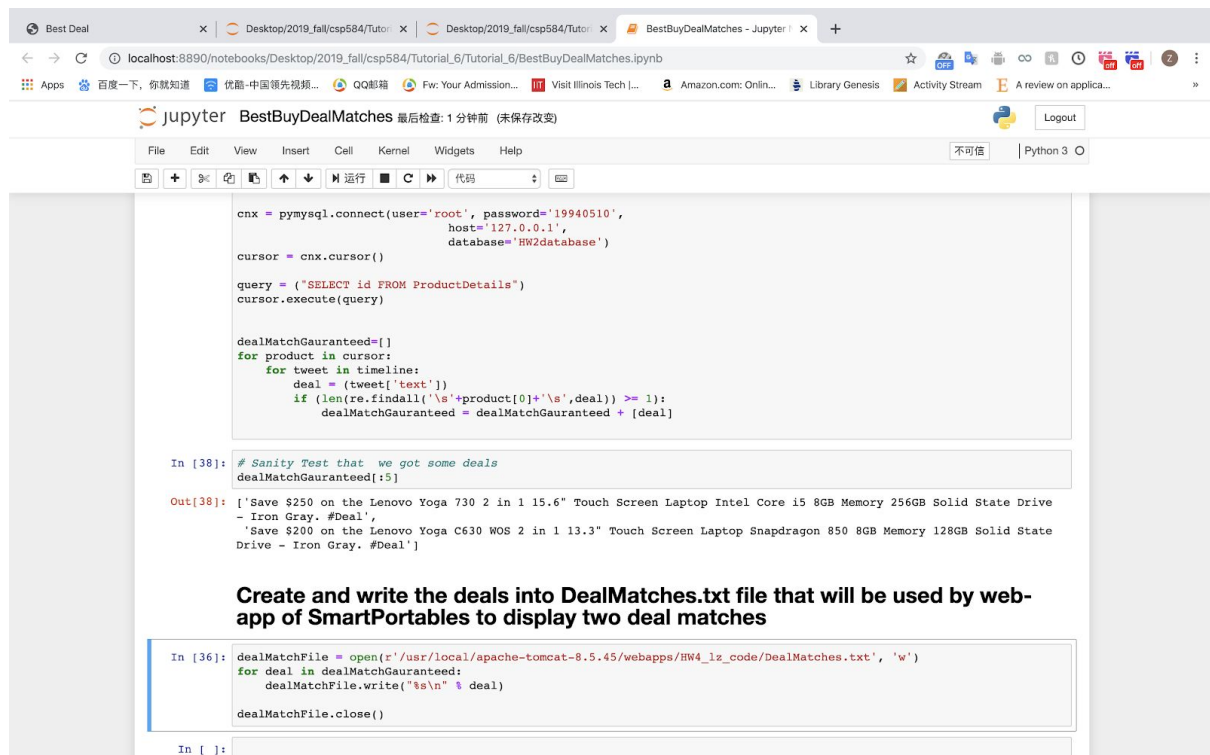


First Part(Deal Match):

1: get the match deals:



```
cnx = pymysql.connect(user='root', password='19940510',
                      host='127.0.0.1',
                      database='HW2database')

cursor = cnx.cursor()

query = ("SELECT id FROM ProductDetails")
cursor.execute(query)

dealMatchGauranteed=[]
for product in cursor:
    for tweet in timeline:
        deal = (tweet['text'])
        if (len(re.findall('\s'+product[0]+'\\s',deal)) >= 1):
            dealMatchGauranteed = dealMatchGauranteed + [deal]

In [38]: # Sanity Test that we got some deals
dealMatchGauranteed[:5]

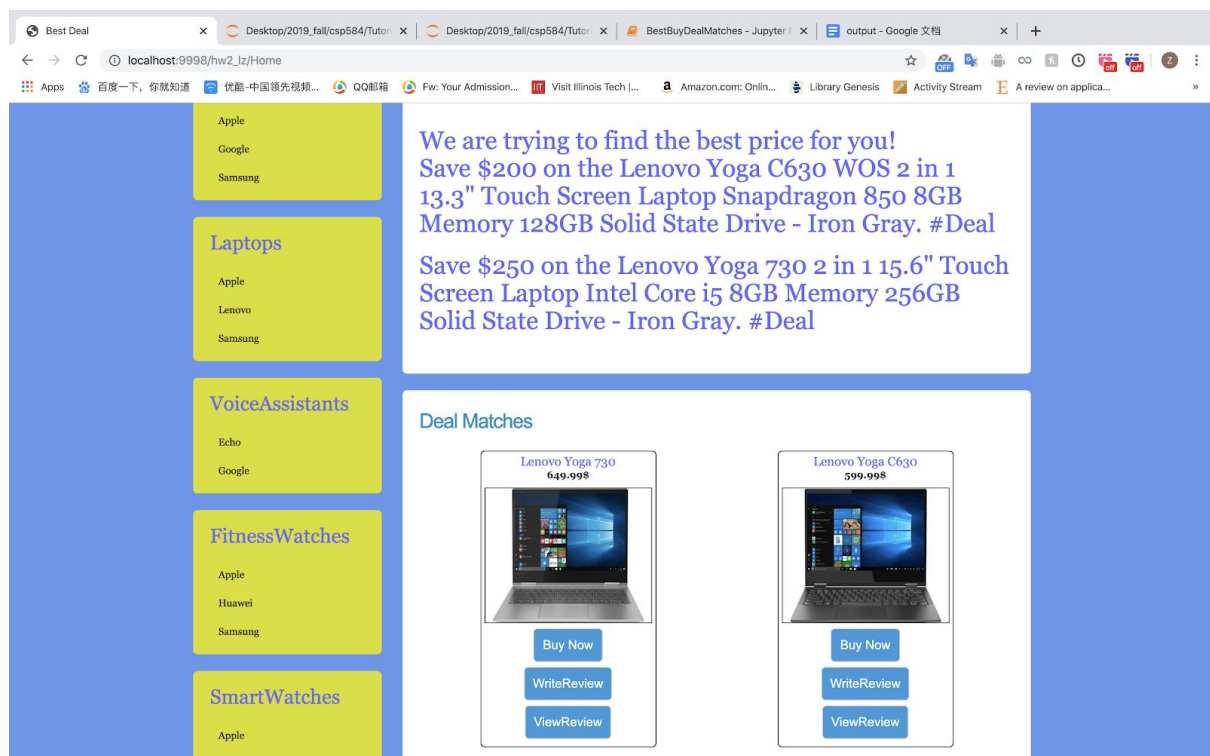
Out[38]: ['Save $250 on the Lenovo Yoga 730 2 in 1 15.6" Touch Screen Laptop Intel Core i5 8GB Memory 256GB Solid State Drive - Iron Gray. #Deal',
'Save $200 on the Lenovo Yoga C630 WOS 2 in 1 13.3" Touch Screen Laptop Snapdragon 850 8GB Memory 128GB Solid State Drive - Iron Gray. #Deal']

Create and write the deals into DealMatches.txt file that will be used by web-app of SmartPortables to display two deal matches

In [36]: dealMatchFile = open(r'/usr/local/apache-tomcat-8.5.45/webapps/HW4_lz_code/DealMatches.txt', 'w')
for deal in dealMatchGauranteed:
    dealMatchFile.write("%s\n" % deal)
dealMatchFile.close()

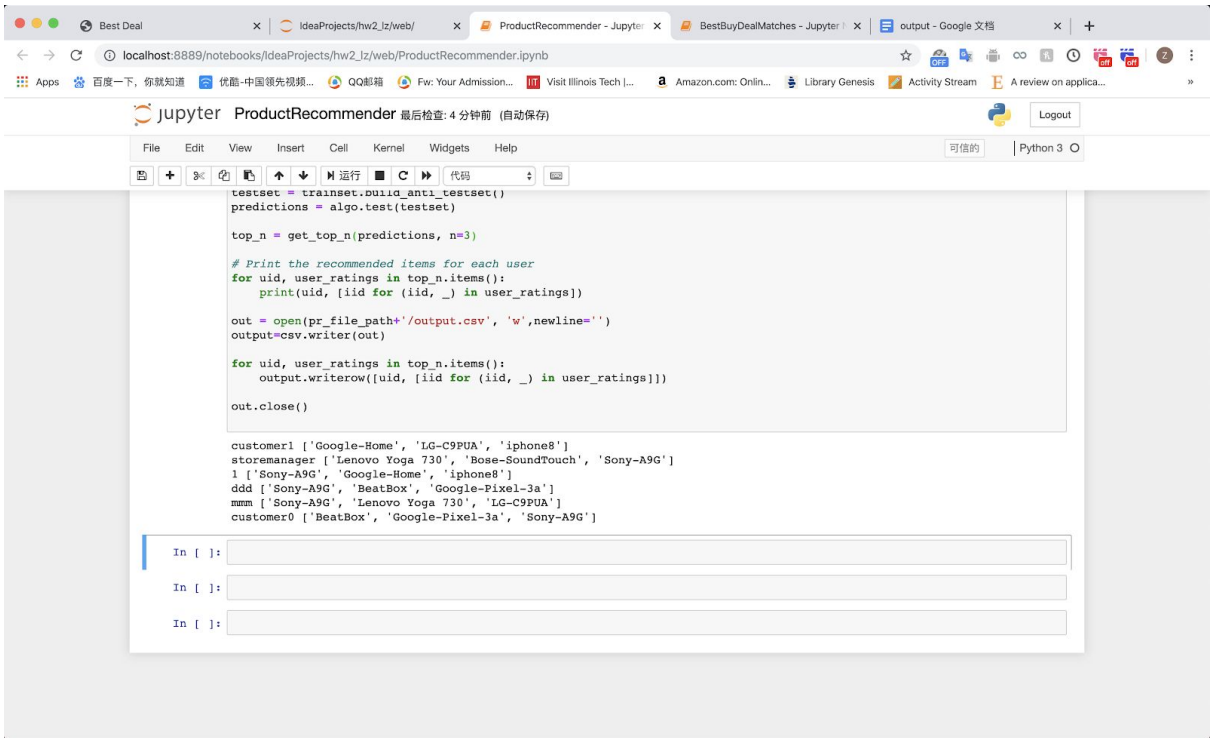
In [ ]:
```

2:

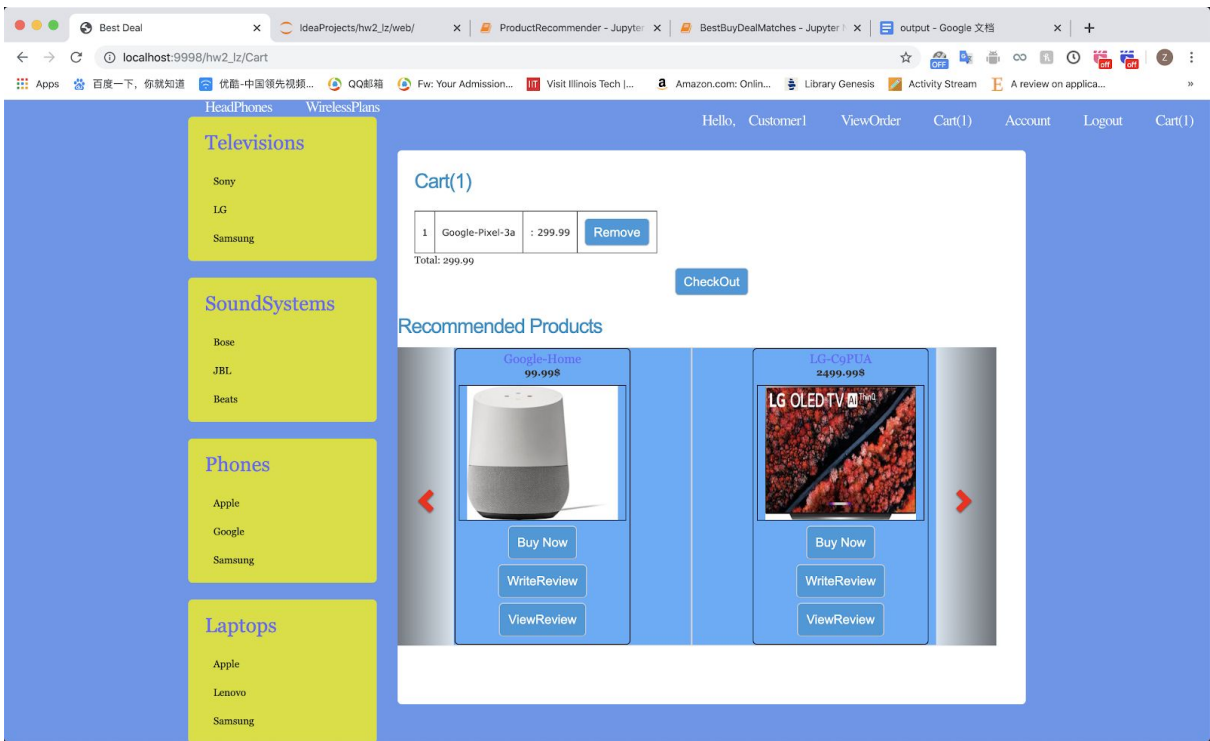


Second Part(Recommender):

3:



4:



5: add recommended products to cart:

