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Python 3

```
('Lenovo',)
('Lenovo1',)
('LG',)
('LG1',)
('MI',)
('Michael Kors',)
('Microsoft Surface',)
('Movado',)
('Philips',)
('Premium',)
('Razer',)
('Samsung',)
('Samsung Galaxy',)
('Samsung1',)
('Siri',)
('Skagen',)
('Sony',)
('Sony1',)
('Sony2',)
('Ultimate',)
('Vizio',)
('Vizio1',)
```

```
In [33]: # Sanity Test that we got some deals
dealMatchGauranteed[:5]
```

```
Out[33]: ['Save $70 on the Acer 15.6" Chromebook Intel Celeron 4GB Memory 16GB eMMC Flash Memory - Granite Gray. #Deal',
'Save $150 on the Acer Nitro 5 15.6" Gaming Laptop Intel Core i5 8GB Memory NVIDIA GeForce GTX 1050 Ti 256GB Solid S... https://t.co/8d0pGvXY7u',
'Save $140 on the Beats by Dr. Dre Beats Solo³ Wireless Headphones - Matte Gold. #Deal',
'Save $50 on the Bose SoundSport Wired In Ear Headphones - Charcoal. #Deal',
'Save $70 on the Garmin Vivoactive 3 Smartwatch - Stainless Steel. #Deal']
```

- Beats
- Bose
- Apple
- Sony

- ### Voice Assistant
- Alexa
 - Cortana
 - Siri
 - Google Assistant
 - Apple Home Pod

- ### Sound System
- Vizio
 - Sony
 - LG
 - Bose
 - Apple

- ### Fitness Watch
- Apple


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Deal Matches

Garmin
189.99\$




Buy Now

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ViewReview

Beats
189.99\$



Buy Now

WriteReview

ViewReview

 web.xml

1 Save \$70 on the Acer 15.6" Chromebook Intel Celeron 4GB Memory 16GB eMMC Flash Memory - Granite Gray. #Deal'
2 Save \$150 on the Acer Nitro 5 15.6" Gaming Laptop Intel Core i5 8GB Memory NVIDIA GeForce GTX 1050 Ti 256GB Solid S... <https://t.co/8d0p6vXY7u>
3 Save \$140 on the Beats by Dr. Dre Beats Solo³ Wireless Headphones - Matte Gold. #Deal'
4 Save \$50 on the Bose SoundSport Wired In Ear Headphones - Charcoal. #Deal'
5 Save \$70 on the Garmin Vivoactive 3 Smartwatch - Stainless Steel. #Deal

> MAVEN PROJECTS

output.csv X

output.csv

▼ ASSIGNMENT1_OLD

BestBuyDealMatches.ipy...

 mongodata_train.csv

 web.xml

➤ MAVEN PROJECTS

```
1 mehar,['vizio']
2 sid,['Razer', 'HP']
3 disha,['Razer', 'HP']
4 test1,['Razer', 'Vizio', 'HP']
5 shivam_kulkarni,['vizio', 'Razer']
6
```

```
In [3]: import os
import csv
from surprise import BaselineOnly
from surprise import Dataset
from surprise import Reader
from surprise import SVD
from surprise import accuracy
from surprise.model_selection import cross_validate
from surprise.model_selection import train_test_split
from collections import defaultdict
```

```
In [4]: pr_file_path="C:/apache-tomcat-7.0.34/webapps/Assignment1_old/"
os.chdir('C:/Program Files/MongoDB/Server/3.2/bin')
os.system('mongoexport --db CustomerReview --collection movieReviews --type=csv --fields userName,productName,reviewRating >' + pr_

with open(pr_file_path+"mongodata_train.csv", "r") as f:
    reader = csv.DictReader(f, delimiter=',')
    with open(pr_file_path+"mongodata_test.csv", "w", newline='') as f_out:
        writer = csv.DictWriter(f_out, fieldnames=reader.fieldnames, delimiter=",")
        for row in reader:
            writer.writerow(row)

file_path = os.path.expanduser(pr_file_path+'mongodata_test.csv')

# As we're loading a custom dataset, we need to define a reader. In the
# movielens-100k dataset, each line has the following format:
# 'user item rating timestamp', separated by '\t' characters.
reader = Reader(line_format='user item rating', sep=',')

#data = Dataset.load_from_file(file_path, reader=reader)

def get_top_n(predictions, n=10):
    '''Return the top-N recommendation for each user from a set of predictions.
```