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```
In [50]: # Count words
from collections import Counter # This is just a fancy dict mapping from object->int, starting at 0.
counts = Counter()
for tweet in timeline:
    counts.update(tweet['text'].lower().split())
print('found %d unique terms in %d tweets' % (len(counts), len(timeline)))
counts.most_common(10)
```

found 961 unique terms in 200 tweets

```
Out[50]: [(u'save', 176),
          (u'on', 175),
          (u'#deal', 169),
          (u'the', 99),
          (u'https://t.co/ep1jo2btvw', 71),
          (u'-' , 65),
          (u'select', 36),
          (u'with', 34),
          (u'diag.', 30),
          (u'led', 26)]
```

```
In [51]: import re
for tweet in timeline:
    deal = tweet['text']
    print deal + '\n'
```

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```
In [52]: import re
import pymysql

cnx = pymysql.connect(user='root', password='1234',
                      host='127.0.0.1',
                      database='Smartdatabase')

cursor = cnx.cursor()

query = ("SELECT name FROM products")
cursor.execute(query)

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

In []:

```
In [53]: # Sanity Test that we got some deals
dealMatchGauranteed[:5]
```

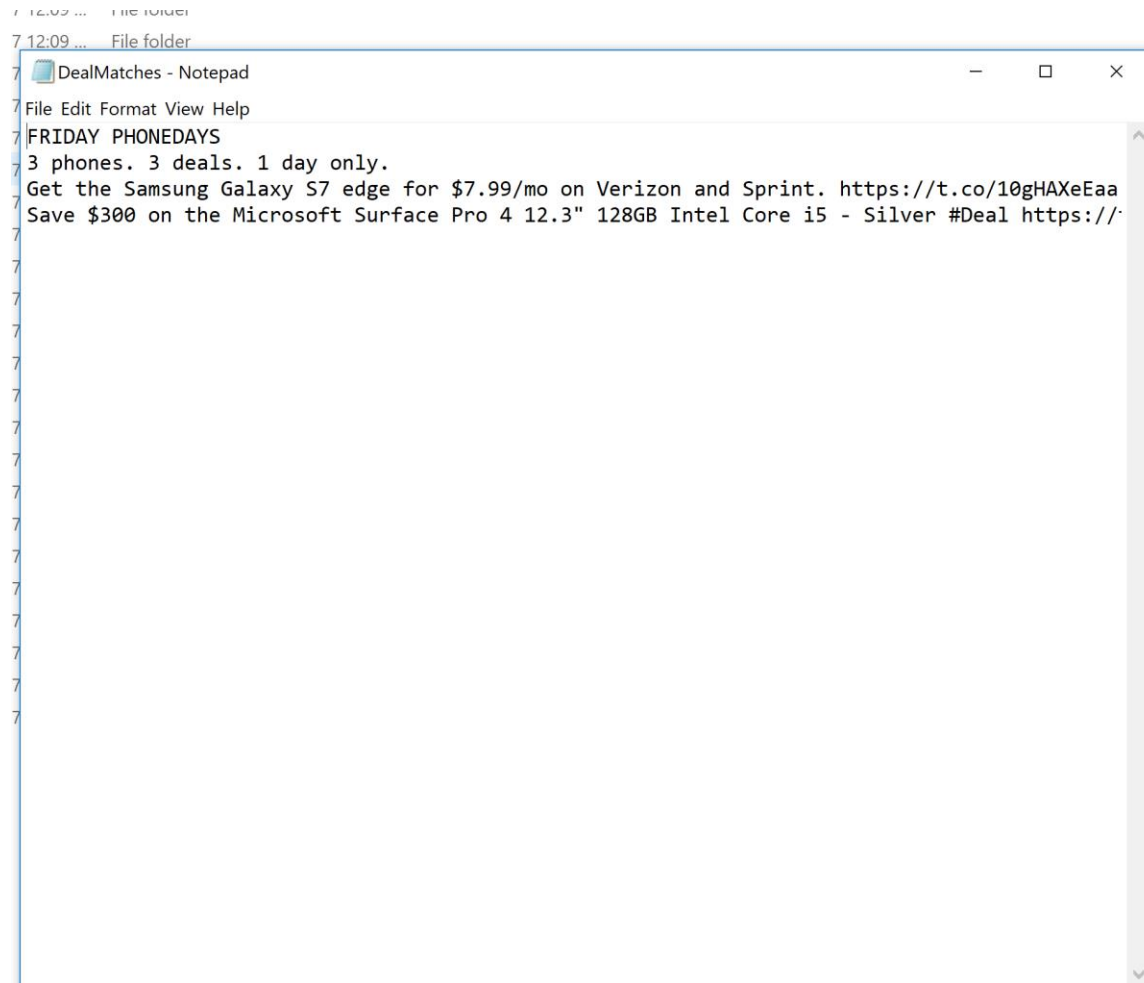
```
Out[53]: ['FRIDAY PHONEDAYS\\n3 phones. 3 deals. 1 day only.\\nGet the Samsung Galaxy S7 edge for $7.99/mo on Verizon and Sprint. https://t.co/10gHAXeEaa',
          'Save $300 on the Microsoft Surface Pro 4 12.3" 128GB Intel Core i5 - Silver #Deal https://t.co/EP1Jo2bTvw']
```

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

```
In [34]: dealMatchFile = open('DealMatches.txt', 'w')

for deal in dealMatchGauranteed:
    dealMatchFile.write("%s\\n" % deal)

dealMatchFile.close()
```



images	11/21/2017 12:09 ...	File folder	
img	11/21/2017 12:09 ...	File folder	
src	11/21/2017 12:09 ...	File folder	
WEB-INF	11/21/2017 12:09 ...	File folder	
BestBuyDealMatches	11/20/2017 11:48 ...	Canopy Document	90 KB
Cart	11/21/2017 12:13 ...	HTML File	2 KB
Checkout	11/21/2017 12:13 ...	HTML File	2 KB
Confirmation	11/21/2017 12:12 ...	HTML File	1 KB
Content	11/21/2017 12:11 ...	HTML File	2 KB
credentials	11/18/2017 6:19 P...	Text Document	1 KB
DealMatches	11/18/2017 7:18 P...	Text Document	1 KB

```

9
10 • use Smartdatabase;
11
12 • create table products(id varchar(40),type varchar(40),retailer varchar(40),image varchar(40),name varchar(40));
13 • select *from products;
14 ✖ drop table products;
15
16

```

ult Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

id	type	retailer	image	name	company	price	color
004	Smartphone	SmartPortables	images/oneA9.jpg	One A-9	HTC	549.0	Black
005	Smartphone	SmartPortables	images/motog4.jpg	Moto G4	Motorola	199.0	Black
25291	Smartphone	SmartPortables	images/iphone7.jpg	iPhone 5	Apple	549.0	Black
30699	Smartphone	BestDeal Chicago	images/escape2.jpg	Escape 1	LG	675.0	Grey
003	Smartphone	SmartPortables	images/escape2.jpg	Escape 2	LG	565.0	White
002	Smartphone	SmartPortables	images/galaxyS7.jpg	Galaxy S7	Samsung	670.0	Navy Blue
010	Tablet	SmartPortables	images/ipadMini2.jpg	iPad Mini 2	Apple	269.99	Grey
41207	Tablet	SmartPortables	images/ipadAir2.jpg	iPad Air 1	Apple	389.0	Black
007	Tablet	SmartPortables	images/galaxytabA.jpg	Galaxy Tab A	Samsung	299.59	Navy Blue
009	Tablet	SmartPortables	images/fire7.jpg	Fire 7	Amazon	49.99	Black

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Deal Matches



Keyboard sold separately.

Surface Pro 4	Price: 839.99
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Color: Blue	view reviews
Condition: New	add to cart



Galaxy S7	Price: 670.0
Company: Samsung	write review
Color: Navy Blue	view reviews
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