1. Python Script to connect with MySQL database.

Script:


```python
import re
import pymysql

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

cursor=cnx.cursor()

query= ("SELECT pname 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]
```
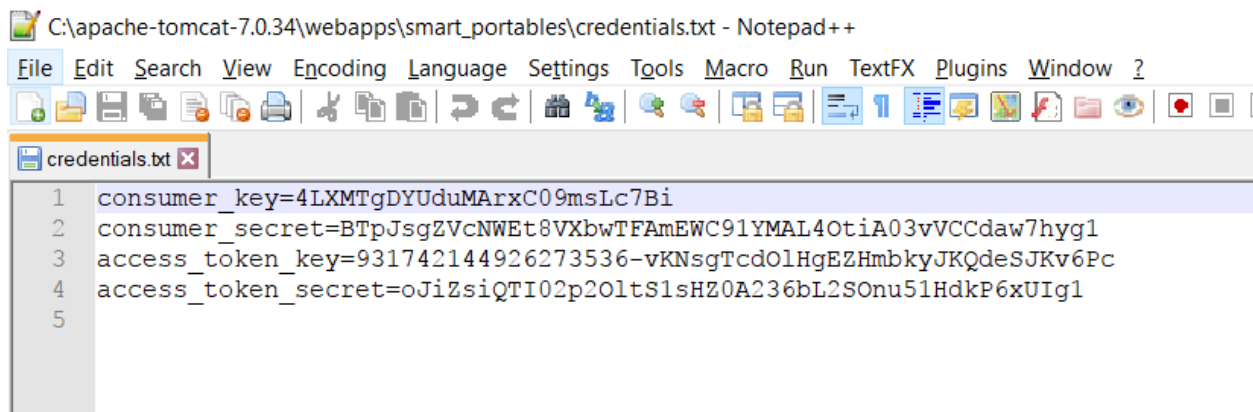
Matched deals found from database:

In [187]: # Sanity Test that we got some deals
dealMatchGauranteed

Out[187]: ['Save $150 on the Apple MacBook Pro 15.4" Display Intel Core i7 16GB Memory 256GB Flash Storage - Silver #Deal https://t.co/EP lJe2hTvw',
'Save $400 on select Apple MacBook Pro with Touch Bar. #Deal https://t.co/eeqBsHuJ53',
'FRIDAY PHONEDAYS \n3 phones. 3 deals. 1 day only.\nGet a iPhone 6s Plus (32GB) for $14.99/moon Verizon and Sprint. https://t. co/ZP7Urt7k3N',
'Save $30 on Pre-Owned iPhone 5s (Unlocked) #Deal\nhttps://t.co/IIOAX5Z2yA',
'Save $300 on Samsung Notebook 9 spin 13.3" Touch-Screen Laptop with an Intel Core i7 and 8GB Memory. #Deal https://t.co/IBtZH o4Hda',
'Save $70 on the Dell Inspiron 15.6" Touch Screen Laptop Intel Core i3 8GB Memory 1TB Hard Drive -Black #Deal https://t.co/EPl Jo1UiDY',
'Save $100 off Dell Inspiron 15.6" Touch-Screen Laptop. #Deal https://t.co/DyRvjwYNNs']

2. Credentials.txt to store Twitter tokens and key.
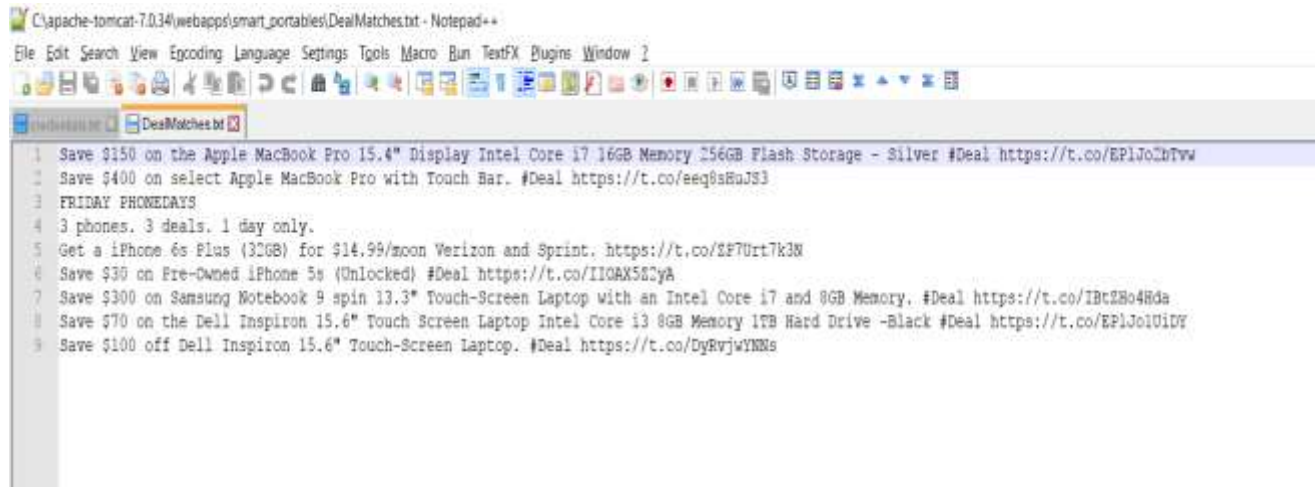
C:\apache-tomcat-7.0.34\webapps\smart_portables\credentials.txt - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run TextFX Plugins Window ?

credentials.txt

```
1   consumer_key=4LXMTgDYUduMArxC09msLc7Bi
2   consumer_secret=BTpJsgZVcNWEt8VXbwTFAmEWC91YMAL4OtiA03vVCCdaw7hyg1
3   access_token_key=931742144926273536-vKNsgTcdOlHgEZHmbkyJKQdeSJKv6Pc
4   access_token_secret=oJiZsiQTI02p2OltS1sHZ0A236bL2SOnu51HdkP6xUIg1
5
```
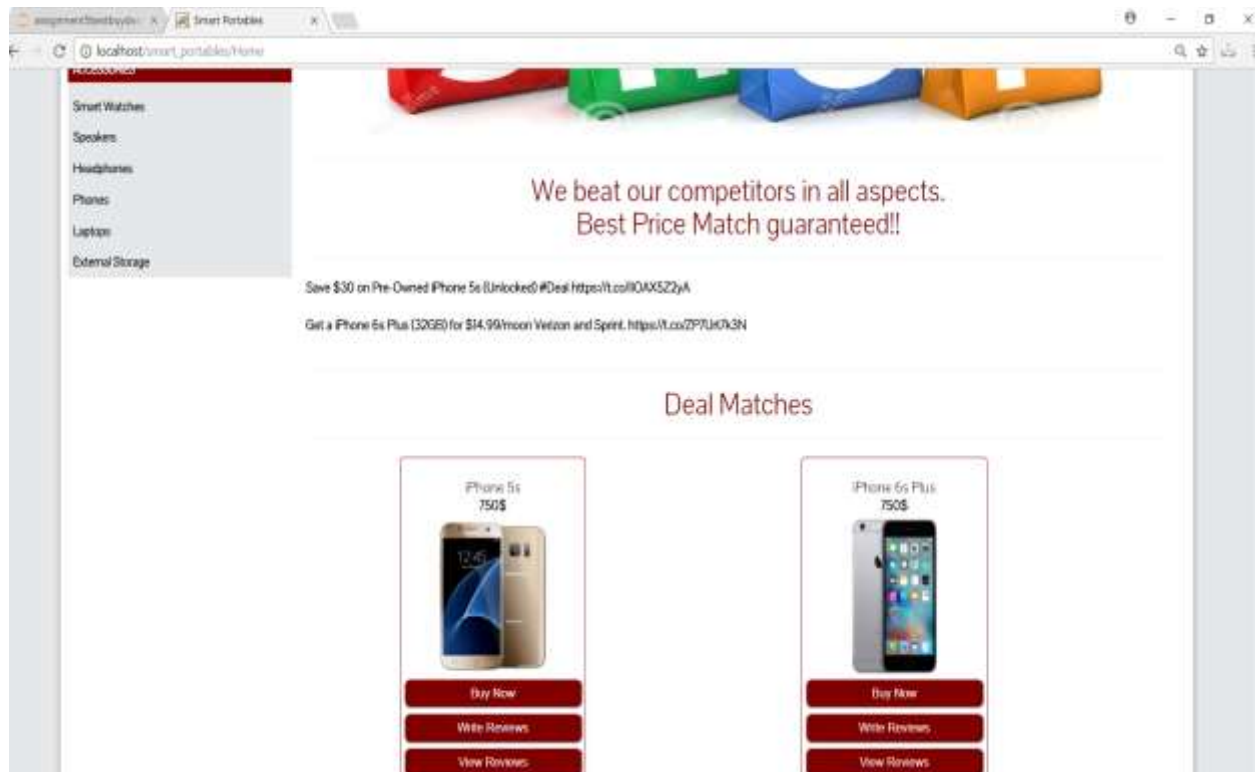
3. DealMatches.txt

4. HomePage with deals matched:

5. Products in MySQL database