

1. Python Script to connect with MySQL database.



The screenshot shows a Jupyter Notebook titled "assignment5bestbuydeals" with a code cell containing the following Python script:

```
In [186]: 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]
```

Below the code cell, the output of the script is displayed:

```
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
330b7fw',
'Save $800 on select Apple MacBook Pro with Touch Bar. #Deal https://t.co/veq8um7K3',
'FRIDAY PHONES DAYS /n3 phones. 3 deals. 1 day only.\\nGet a iPhone 6s Plus (32GB) for $14.99/moon Verizon and Sprint. https://t.
co/2P7N7r17k3M',
'Save $30 on Pre-Owned iPhone 5s (unlocked) #Deal\\nhttps://t.co/120AKS72yA',
'Save $300 on Samsung Notebook 9 spin 13.3" Touch-Screen Laptop with an Intel Core i7 and 8GB Memory. #Deal https://t.co/1Bt2H
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/EP1
Jm1U12N',
'Save $100 off Dell Inspiron 15.6" Touch-Screen Laptop. #Deal https://t.co/10b0u4W4k1']
```

Script:

```
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=[]

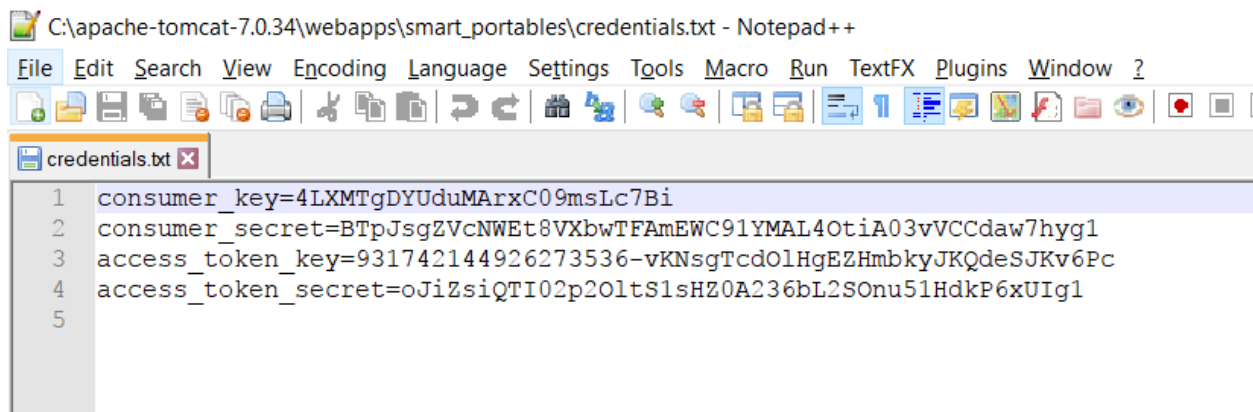
for product in cursor:
    for tweet in timeline:
        deal = (tweet['text']).encode('ascii','ignore')
        if (len(re.findall(r'\s'+product[0]+'\\s',deal)) >= 1):
            dealMatchGauranteed = dealMatchGauranteed + [deal]
```

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
13e2hTvw',
'Save $400 on select Apple MacBook Pro with Touch Bar. #Deal https://t.co/eqqBshuJ53',
'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/II0AX5Z2yA',
'Save $300 on Samsung Notebook 9 spin 13.3" Touch-Screen Laptop with an Intel Core i7 and 8GB Memory. #Deal https://t.co/IWT2H
p4Hda',
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Jo1U1Dy',
'Save $100 off Dell Inspiron 15.6" Touch-Screen Laptop. #Deal https://t.co/DyRvjuYWNs']
```

2. Credentials.txt to store Twitter tokens and key.



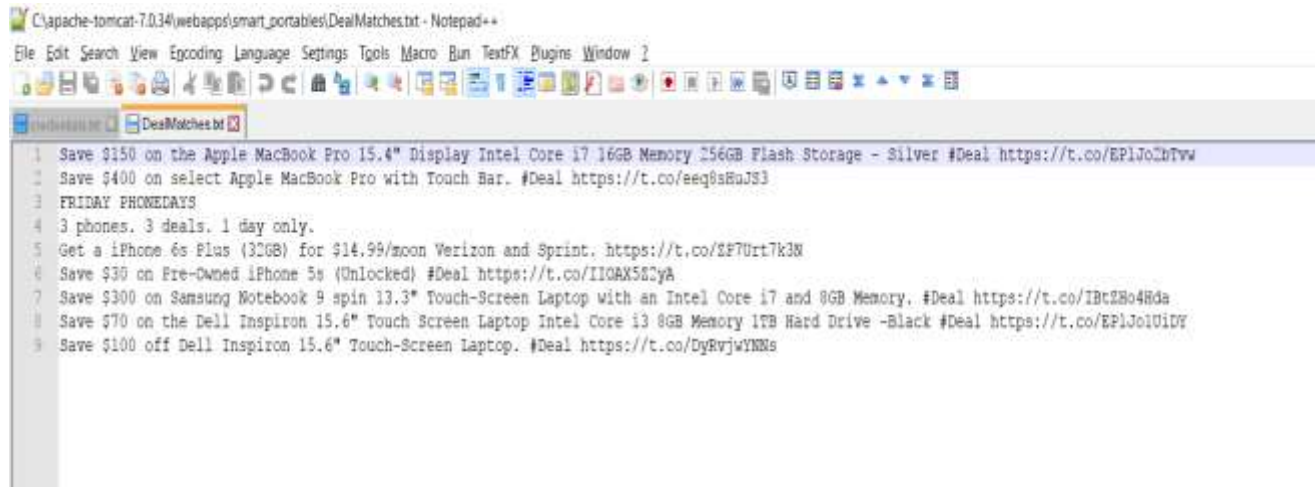
C:\apache-tomcat-7.0.34\webapps\smart_portables\credentials.txt - Notepad++

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=oJiZsiQTI02p20ltS1sHZ0A236bL2SOnu51HdkP6xUIg1
5
```

3. DealMatches.txt

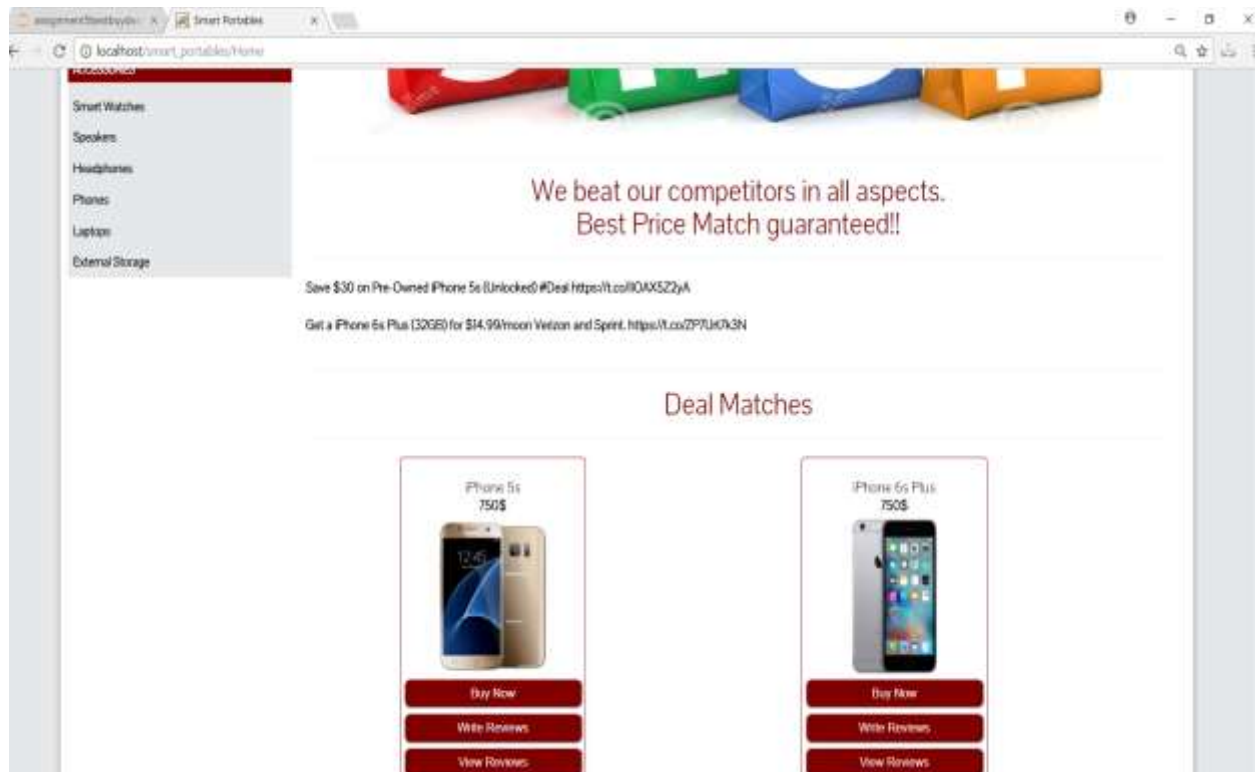


```
C:\apache-tomcat-7.0.34\webapps\smart_portables\DealMatches.txt - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run TextFX Plugins Window ?

1 Save $150 on the Apple MacBook Pro 15.4" Display Intel Core i7 16GB Memory 256GB Flash Storage - Silver #Deal https://t.co/EPlJoZhTw
2 Save $400 on select Apple MacBook Pro with Touch Bar. #Deal https://t.co/eeq9sRuJS3
3 FRIDAY PHONEDAYS
4 3 phones. 3 deals. 1 day only.
5 Get a iPhone 6s Plus (32GB) for $14.99/moon Verizon and Sprint. https://t.co/2F7Urt7k3N
6 Save $30 on Pre-Owned iPhone 5s (Unlocked) #Deal https://t.co/IIGAX5E2yA
7 Save $300 on Samsung Notebook 9 spin 13.3" Touch-Screen Laptop with an Intel Core i7 and 8GB Memory. #Deal https://t.co/IBtZHo4Hda
8 Save $70 on the Dell Inspiron 15.6" Touch Screen Laptop Intel Core i3 8GB Memory 1TB Hard Drive -Black #Deal https://t.co/EPlJo1UiDY
9 Save $100 off Dell Inspiron 15.6" Touch-Screen Laptop. #Deal https://t.co/DyRvjwYNNs
```

4. HomePage with deals matched:





5. Products in MySQL database

Query 1 user SQL File 5* orders products accessories SQL File 8* SQL File 9* SQL File 12* hotels

Limit to 1000 rows

```
SELECT * FROM smartportablesdb.products;
```

prodd	pname	price	pinage	category	brand	deal	discount	quantity	prodOnSale	manuRebate
37	Fitbit Ionic Smartwatch	299	images/products/SmartWatches/smt...	smartWate...	Fitbit	normal	10	50	No	No
38	Fitbit Smart Fitness Watch	189	images/products/SmartWatches/smt...	smartWate...	Fitbit	normal	10	50	Yes	No
3	Headphones SONY MDR-1RNC	679	images/products/Headphones/H04.jpg	headphones	Sony	normal	10	50	Yes	No
19	Hp	750	images/products/Laptops/l2.jpg	laptops	HP	normal	10	50	No	Yes
11	iPhone 5	150	images/products/Phones/p1.jpg	phones	ABC	normal	10	50	No	No
15	iPhone 5s	750	images/products/Phones/p3.jpg	phones	ABC	normal	10	50	Yes	Yes
13	iPhone 6s Plus	750	images/products/Phones/p2.jpg	phones	ABC	normal	10	50	Yes	Yes
24	Lootech Multimedia Soekers Z150	23	images/products/Soekers/so6.jpg	soekers	Lootech	normal	10	50	Yes	No
22	Lootech S150 USB Soekers	18	images/products/Soekers/so5.jpg	soekers	Lootech	normal	10	50	Yes	No
35	Pebble Smart Watch- Black	46	images/products/SmartWatches/smt...	smartWate...	Pebble	normal	10	40	Yes	No
34	Pebble Smartwatch for - Charcoal/Lime	90	images/products/SmartWatches/smt...	smartWate...	Pebble	normal	10	50	No	No
28	Philos BTM2180/37 Micro Music System	118	images/products/Soekers/so8.jpg	soekers	Philos	normal	10	50	Yes	No