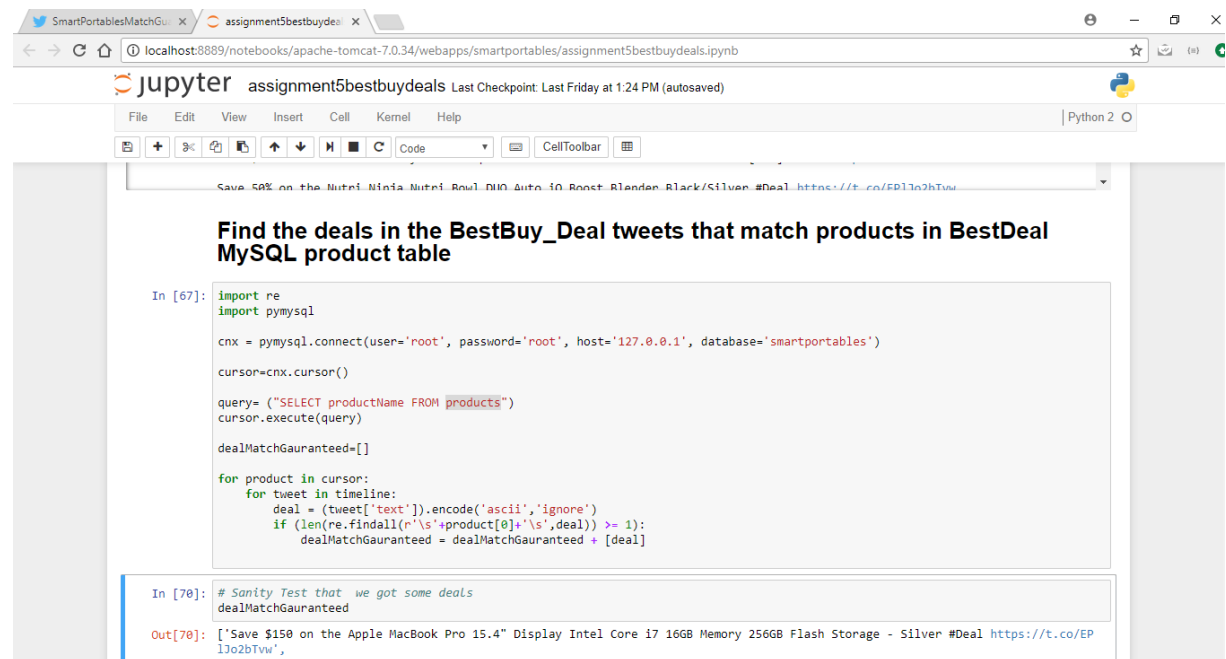


1. Python script:



The screenshot shows a Jupyter Notebook titled 'assignment5bestbuydeals'. The notebook contains two code cells. The first cell, labeled 'In [67]:', imports the 're' and 'pymysql' modules, connects to a MySQL database named 'smartportables' using the root user, and executes a query to select product names from a table named 'products'. It then iterates through a timeline of tweets, checking if the product name is found in the tweet text. The second cell, labeled 'In [70]:', is a sanity test that prints the 'dealMatchGauranteed' variable. The output of the second cell shows a list of deals, including one for an Apple MacBook Pro 15.4" Display.

```
In [67]: import re
import pymysql

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

cursor=cnx.cursor()

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

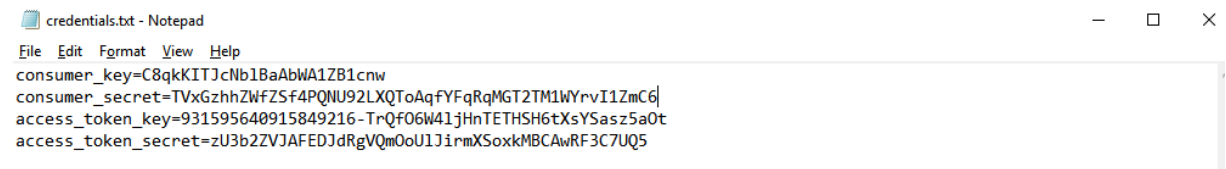
dealMatchGauranteed=[]

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

Out[70]: ['Save $150 on the Apple MacBook Pro 15.4" Display Intel Core i7 16GB Memory 256GB Flash Storage - Silver #Deal https://t.co/EP1Jo2bTvw',
13o2bTvw']
```

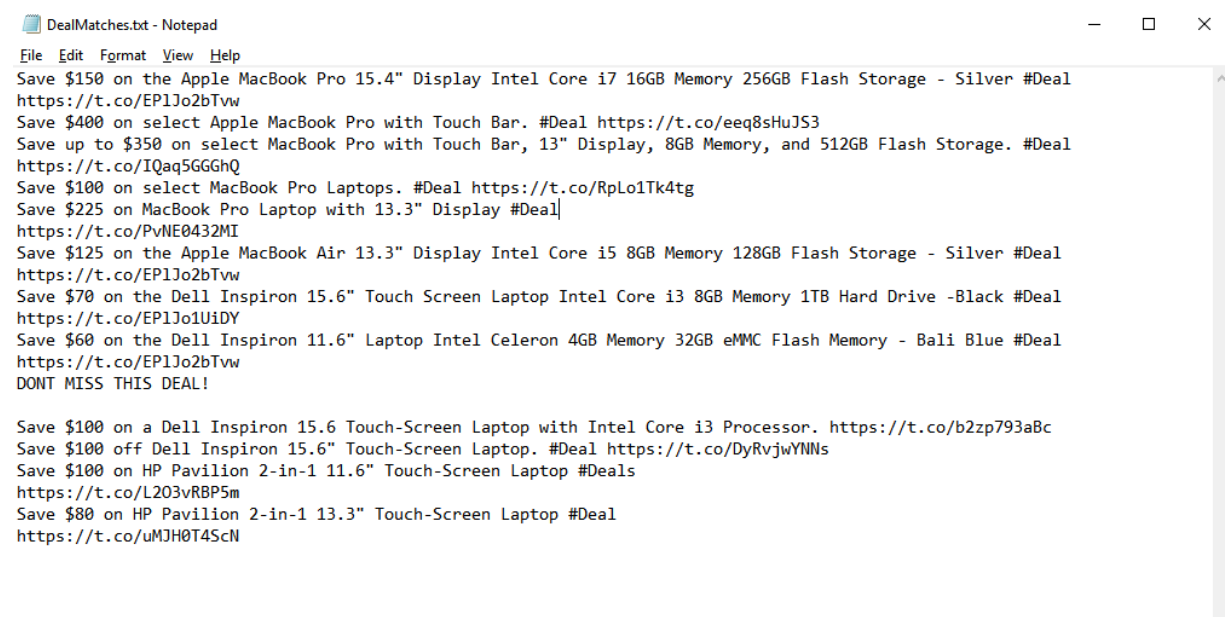
2. Credentials.txt:



The screenshot shows a Notepad window titled 'credentials.txt - Notepad'. The file contains the following text:

```
consumer_key=C8qkKITJcNb1BaAbWA1ZB1cnw
consumer_secret=TVxGzhZwFZSF4PQNU92LXQToAqfYFqRqMGT2TM1WYrvI1ZmC6
access_token_key=931595640915849216-TrQf06W41jHnTETHSH6tXsYSasz5a0t
access_token_secret=zU3b2ZVJAFEDJdRgVQm0oU1JirmXSokMBCAwRF3C7UQ5
```

3. DealMatches.txt:

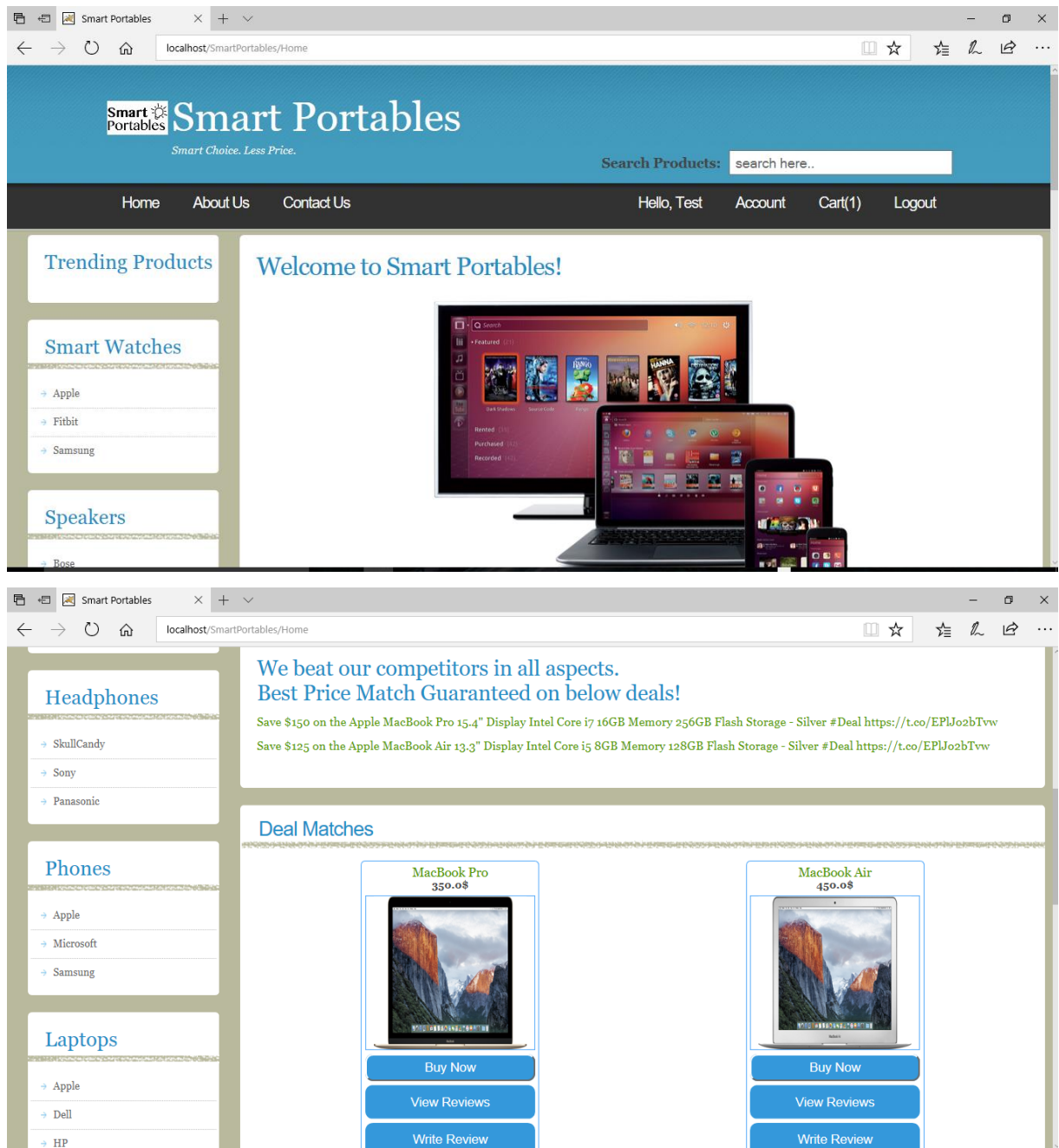


The screenshot shows a Notepad window titled 'DealMatches.txt - Notepad'. The file contains the following text:

```
Save $150 on the Apple MacBook Pro 15.4" Display Intel Core i7 16GB Memory 256GB Flash Storage - Silver #Deal https://t.co/EP1Jo2bTvw
Save $400 on select Apple MacBook Pro with Touch Bar. #Deal https://t.co/eeq8sHuJ53
Save up to $350 on select MacBook Pro with Touch Bar, 13" Display, 8GB Memory, and 512GB Flash Storage. #Deal https://t.co/IQaq5GGghQ
Save $100 on select MacBook Pro Laptops. #Deal https://t.co/RpLo1Tk4tg
Save $225 on MacBook Pro Laptop with 13.3" Display #Deal https://t.co/PvNE0432MI
Save $125 on the Apple MacBook Air 13.3" Display Intel Core i5 8GB Memory 128GB Flash Storage - Silver #Deal https://t.co/EP1Jo2bTvw
Save $70 on the Dell Inspiron 15.6" Touch Screen Laptop Intel Core i3 8GB Memory 1TB Hard Drive -Black #Deal https://t.co/EP1Jo1UiDY
Save $60 on the Dell Inspiron 11.6" Laptop Intel Celeron 4GB Memory 32GB eMMC Flash Memory - Bali Blue #Deal https://t.co/EP1Jo2bTvw
DONT MISS THIS DEAL!

Save $100 on a Dell Inspiron 15.6 Touch-Screen Laptop with Intel Core i3 Processor. https://t.co/b2zp793aBc
Save $100 off Dell Inspiron 15.6" Touch-Screen Laptop. #Deal https://t.co/DyRvjwYNNs
Save $100 on HP Pavilion 2-in-1 11.6" Touch-Screen Laptop #Deals https://t.co/L203vRBP5m
Save $80 on HP Pavilion 2-in-1 13.3" Touch-Screen Laptop #Deal https://t.co/uMJH0T4ScN
```

4. HomePage with DealsMatch:



Buy those deals:

localhost/SmartPortables/Cart

Smart Portables

Smart Choice. Less Price.

Search Products:

Home About Us Contact Us Hello, Test Account Cart(1) Logout

Trending Products

Smart Watches

- Apple
- Fitbit
- Samsung

Speakers

- Bose
- Doss
- Logitech

Cart(1)

No.	Product Name	Product Type	Manufacturer	Product Price	Action
1.	MacBook Pro	Laptops	Apple	\$ 350.0	Remove Item
			Total	350.0	
					Check Out

Accessories

Bluetooth Receiver
50.0\$

Bag
70.0\$

Carrying Case
110.0\$

View Reviews on DealMatch products:

Smart Portables

localhost/SmartPortables/ViewReviews?productmodelName=MacBook Pro

Smart Portables

Smart Choice. Less Price.

Search Products:

Home About Us Contact Us Hello, Test Account Cart(1) Logout

Trending Products

Smart Watches

- Apple
- Fitbit
- Samsung

Speakers

Reviews

Review #	1
Product Model Name	MacBook Pro
User Name	test1
Product Category	Laptops
Review Rating	5.0
Review date	Fri Oct 13 20:30:22 CDT 2017
Review text	AWSome

Write review for DealMatch products:

Smart Portables

Smart Choice. Less Price.

Search Products:

Home About Us Contact Us Hello, Test Account Cart(1) Logout

Trending Products

Smart Watches

- Apple
- Fitbit
- Samsung

Speakers

- Bose

Billing Details

Product Model Name: MacBook Pro

Product Category: Laptops

Product Price: 350.0

Retailer Name:

Retailer Zip:

Retailer City:

Retailer State:

Product on Sale: Yes

ManufacturerName: Apple

Manufacturer Rebate: Yes

User Id: test

User Age:

User gender:

User Occupation:

Review Rating: 1

Review Date: mm/dd/yyyy

DealMatch products in MySQL:

Navigator: products accessories

SCHEMAS: Filter objects

- cs525
- sakila
- smartportables
- sys
- world

1 SELECT FROM smartportables.products;

productid	productName	productCost	productImage	productCategory	productRating	productBrand	productDiscount	productOnSale	productManufacturerrebate	productQuantity
28	Iphone 6s	198	/SmartPortables/...	Phones	discount offer	Apple	30	yes	no	50
29	Iphone 6 plus	215	/SmartPortables/...	Phones	normal	Apple	0	yes	yes	50
30	Microsoft xie5	215	/SmartPortables/...	Phones	normal	Microsoft	0	no	yes	50
31	Microsoft Xie5	250	/SmartPortables/...	Phones	normal	Microsoft	0	yes	no	50
32	Samsuno oalaxv 7	250	/SmartPortables/...	Phones	normal	Samsuno	0	no	yes	50
33	Samsuno oalaxv 7 edoe	250	/SmartPortables/...	Phones	normal	Samsuno	0	yes	yes	50
34	MacBook Pro	350	/SmartPortables/...	Laptops	normal	Apple	0	yes	yes	50
35	MacBook Air	450	/SmartPortables/...	Laptops	Best Seller	Apple	0	no	no	50
36	Dell Inspiron	250	/SmartPortables/...	Laptops	normal	Dell	0	yes	yes	50
37	Dell Alienware	215	/SmartPortables/...	Laptops	normal	Dell	0	no	no	50
38	HP Pavilion	215	/SmartPortables/...	Laptops	normal	HP	0	no	no	50
39	HP BeatsAudio	215	/SmartPortables/...	Laptops	normal	HP	0	yes	no	50
40	Seagate Series 1	198	/SmartPortables/...	Storage	normal	Seagate	0	no	no	50
41	Seagate Series 2	215	/SmartPortables/...	Storage	normal	Seagate	0	yes	no	50
42	Toshiba Series 1	215	/SmartPortables/...	Storage	normal	Toshiba	0	yes	yes	50
43	Toshiba Series 2	250	/SmartPortables/...	Storage	normal	Toshiba	0	no	no	50
44	Western Digital Series 1	250	/SmartPortables/...	Storage	normal	WD	0	yes	yes	50
45	Western Digital Series 2	250	/SmartPortables/...	Storage	normal	WD	0	yes	yes	50

Management Schemas

Information

No object selected

Result Grid

Filter Rows

Edit

Export/Import

Wrap Cell Content

Result Grid

Form Editor

Field Types

Query Stats

Execution Plan