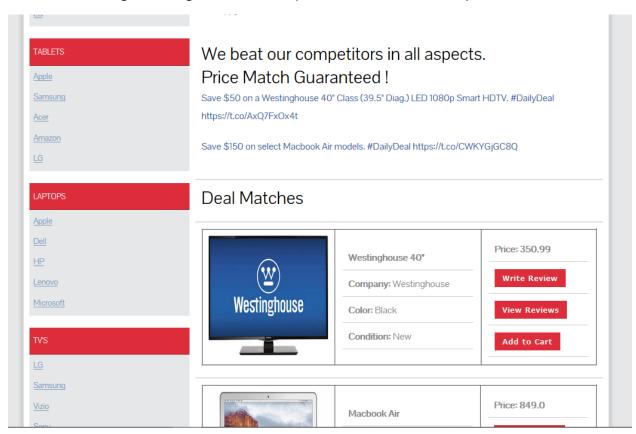
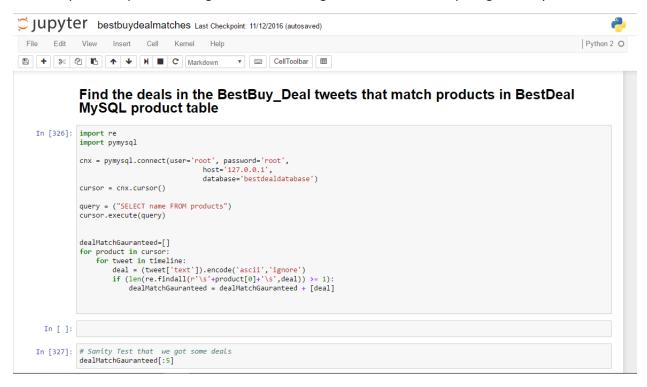
1. Home Page showing 2 tweets and 2 products matched from MySQL table Products



2. DealMatches.txt where tweets are stored



3. Python Script for fetching tweets and storing it in txt file after comparing from MySQL table



4. DealMatches.java where code to get 2 tweets and products from MySQL

```
🔚 DealMatches.java 🗵 📙 Hor
        import java.util.ArrayList;
import java.util.List;
import java.util.HashMap;
        import java.io.*;
import java.util.*;
      public class DealMatches implements java.io.Serializable {
            HashMap<String, Product> selectedProducts;
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            HashMap<String, Product> productMap;
           ArravList<Object> products:
            public ArrayList<String> getTweets()
             public HashMap<String, Product> getSelectedProductsFromTweets()
                catch (Exception e)
                     e.printStackTrace();
                products = MySqlDataStoreUtilities.getProductsFromMySQL();
                productMap = (HashMap<String, Product>)products.get(5);
                tweets = new ArrayList<String>();
                                                                                length: 2023 lines: 95
                                                                                                             Ln:7 Col:25 Sel:11|1
                                                                                                                                                    Dos\Windows
                                                                                                                                                                    UTF-8
Java source file
                                                                                                                                                                                       INS
```

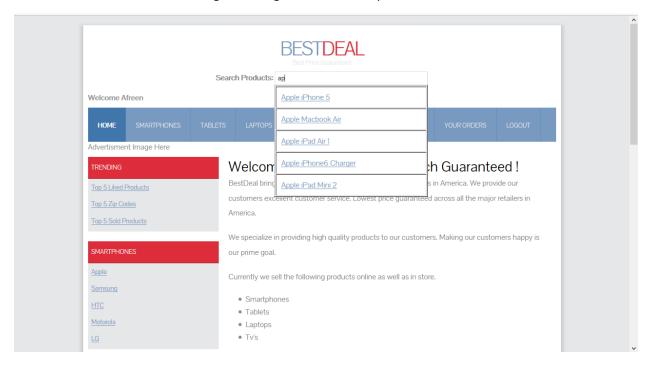
5. Home Servlet. java where tweets and products are displayed

```
☑ HomeServlet java ☑ ☐ MyS
               if(tweets.isEmpty())
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                  out.println(""+"No Offers Found !"+"");
                  for(String tweet: tweets)
                      out.println(""+tweet+"");
              out.println("</article><article><h2>Deal Matches</h2></article>");
              String fname = null;
                  out.println("<article>");
                  out.println("$325b9e'>"+"No Deals Found !"+""); out.println("</article>");
                  for(Map.Entry<String,Product> m :selectedProducts.entrySet()){
                      String productType = s.getType();
                      out.println("<a href=\"ProductDetails.html\"><img style=\"width:200px;height:200px;\" style=\"display:block;\" src=\"");
                      out.println(s.getImage());
out.println("\" /></a>");
out.println("");
                      \verb"out.println("<b>");
Java source file
                                                                      length: 12533 lines: 226
                                                                                                Ln:6 Col:25 Sel:11|1
                                                                                                                                   Dos\Windows
                                                                                                                                                 UTF-8
                                                                                                                                                                 INS
```

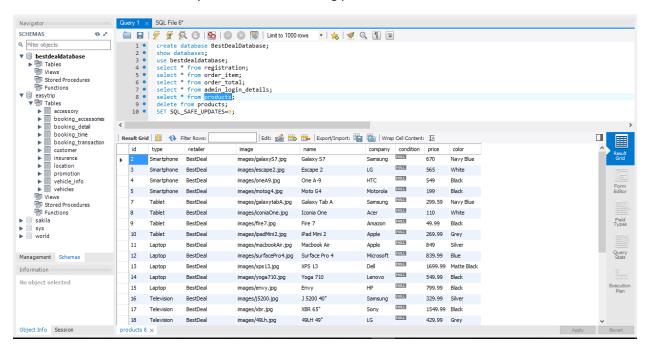
6.MySQLDataStoreUtilities.java showing method to get products from MySQL table

```
java 🖂 🔚 MySqlDataStoreUtilities.java 🔀
                                static Connection getConnection()
                    public static ArrayList<Object> getProductsFromMySQL()
                          ArrayList<Object> products = new ArrayList<Object>();
                           HashMap<String, Smartphone> smartphones= new HashMap<String, Smartphone>();
                          massing/String, Jamartynomes smartynomes ()
HashMap(String, Laptop) laptops new HashMap(String, Laptop)()
HashMap(String, Tablet) lablets tablets new HashMap(String, Tablet)()
HashMap(String, Television) televisions new HashMap(String, Television)();
HashMap(String, Television) televisions new HashMap(String, Television)();
                          HashMap<String, Product> productsMap= new HashMap<String, Product>():
                          Laptop laptop;
Tablet tablet;
                          Television television;
Accessory accessory;
Product product;
                                 Class.forName("com.mysql.jdbc.Driver").newInstance();
conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/bestdealdatabase?autoReconnect=truesuseSSL=false", "root", "root");
                                 s.executeQuery ("SELECT * FROM print ResultSet rs = s.getResultSet();
                                       Integer id1 = rs.getInt("id");
                                       String id = id1.toString();
String type = rs.getString("type");
String retailer = rs.getString("retailer");
Java source file
                                                                                                                              length: 23701 lines: 802
                                                                                                                                                                            Ln:31 Col:57 Sel:20|1
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```

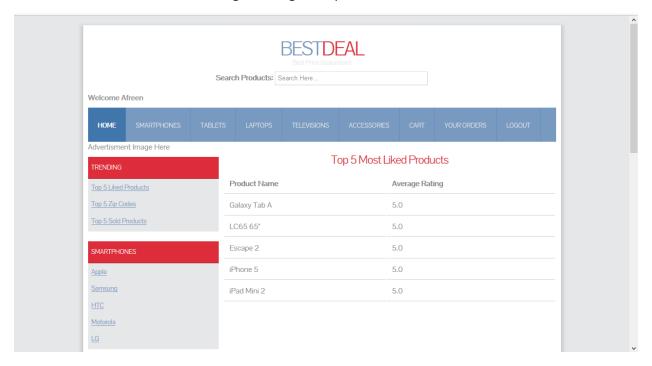
7. Page showing AJAX Auto-Completion Feature



8.MySQL Database showing products table content



9. Showing Trending for Top 5 Most Liked Products



10. Changed code for Top 5 Liked Products (added the '>4' logic to display) where marks were deducted in the last assignment

```
Servlet java 🗵 🔚 MySqlDataStoreUtilities java 🗵 🔚 MongoDBDataStoreUtilities java 🗵
94 95 96 132 133 134 137 138 139 140 141 145 146 147 148 155 151 152 153 154 155 157 158 156 167 162 163 164 165 166 167 167
            public static LinkedHashMap<String, Integer> getTop5ZipCodes()
            public static LinkedHashMap<String, Double> getTop5LikedProducts()
                LinkedHashMap<String, Double> top5LikedProducts = new LinkedHashMap<String, Double>();
                MongoClient mongo;
                mongo = new MongoClient("localhost", 27017);
                DB db= mongo.getDB("CustomerReviews");
myReviews= db.getCollection("myReviews");
                //db.myReviews.aggregate([\{\$group:\{\_id: \$productName', avgRating: \{\$avg: \$previewRating"\}\}\}, \{\$sort: \{avgRating: -1\}\}, \{\$limit: 5\}])
                    myReviews.aggregate(
                             new BasicDBObject ("$group"
                                     ,
new BasicDBObject("%sort", new BasicDBObject("avgRating", -1)),
new BasicDBObject("%limit", 5)
                    );
                String productName="";
                double avg = 0;
                 for (DBObject doc : output.results())
                    productName = (String) doc.get("_id");
                     avg = (Double) doc.get("avgRating");
                         top5LikedProducts.put(productName, avg);
```