**Capabilities covered:**

* Use Java to implement business layer of your application
* Use Eclipse IDE for programming Java application
* Test, and Debug your application to make application ready for deployment
* Follow coding standard and maintain high quality by analysing various reports generated through code quality tools
* Automate the build using Maven

**Problem Statement: Products and Categories**

Given a file “products.txt” which contains the product and category details in the format [PRODUCT\_ID, PRODUCT\_NAME, PRICE, and CATEGORY] as listed below:

1, Chang, 18.00, Beverages

2, Chai, 19.00, Beverages

3, Genen Shouyu, 15.50, Condiments

4, Organic Dried Pears, 30.00, Produce

5, Aniseed Syrup, 10.00, Condiments

6, Chocolate Biscuits, Chocolate Biscuits, Confections

7, Cranberry Sauce, 34.00, Condiments

Complete the given method which returns all the products of a given category sorted alphabetically.

**Input:**

**Category Name [String]**

**Output:**

**Products sorted alphabetically belonging to the given category [List]**

Write following test cases using assertEquals() method.

|  |  |  |
| --- | --- | --- |
| **Test Case** | **Input** | **Output** |
| UTC01\_01 | Condiments | [  {5, Aniseed Syrup, 10.00, Condiments},  {7, Cranberry Sauce, 34.00, Condiments},  { 3, Genen Shouyu, 15.50, Condiments  }  ] |
| UTC01\_02 | Beverages | [{  2, Chai, 19.00, Beverages  },  {  1, Chang, 18.00, Beverages  }  ] |
| UTC01\_03 | Poultry | [] |

[] is a List collection { } is an object