**Assignment** 5: Lab assignment Java Collection

Q1. create a file story.txt and put some text into it. read that file and find the frequency of each word in the file in the and print it

Ex:

story.txt

life is full of fun life is full of fun life is full of fun life

O/P:

life appear 4 times is appear 3 times

.....

......

Q2. Create a class BookCollection which contains:

1. the owner's name and an array of books that the owner has,

2. toString( ) that outputs all the books in the BookCollection in a nice format.

3. a method hasBook(Book b) which checks if the book b is contained in the array (we consider two books the same if they have the same title and author).

4. a method sort() that sorts the books in the array by the lexicographical order of the book title, and author.

Create your own BookCollection and check if you own a particular book:"Java in depth". Sort the BookCollection

and output the BookCollection.

Q3. Consider file data:

97.59780253225763

23.705044359023198

72.97025259152822

18.986484094410137

77.56528079180427

88.5456385076513

59.09494795452861

72.71304984780839

80.0202893029642

29.58427968260707

74.66713563267237

27.40345943374961

15.990164966686493

58.852582668688534

45.58743329596889

77.2227556103568

53.49035808405568

93.5583604428736

35.09314691785803

9.812059847790467

51.438605600928376

6.081908597641594

2.604194278086147

99.43752090812772

20.355993598952395

Put data into a file named data.txt, Read from data.txt all the doubles (edited by a user) and display the biggest one.

Q4. Create a program to create PriorityQueque to store product information

Product class : consist of fields: productId, productName, productPrice. Create and store 5 product into PriorityQueque

You need to use Comparator for custom priority (as per productPrice)