Q5

Complete the classes using the Specifications given below. Consider default visibility of classes, data fields, and methods unless mentioned otherwise.

**Specifications**

class definitions:﻿

class Validator:

method definitions:

checkComment(String **comment**) throws **Exception**:

**return** **type**: **String**

visibility: **public**

﻿

commentTheString(**String** **comment**) throws **Exception**:

**return** **type**: **String**

visibility: **public**

﻿

**class** SpamCommentException:

method definitions:

SpamCommentException(**String** msg)

visibility: **public** ﻿

**Task**

Class **Validator**

**Implement the below methods for this class:**

**-String** **checkComment(String comment):**

* Write a code to validate the comment.
* throw a **SpamCommentException,** if comment has these words["**abcde**", "**lmno**", "**pqrst**", "**wxyz**"] in it, with the message "**spam comment**".
* throw a **SpamCommentException**, if a comment contains more than 2 words from the above list, with the message "**account ban due to spam comment**". Note same words with a frequency of more than 2 will come in this category.
* return a string message "**comment is not spam**" If none of the above exceptions is found.

*Refer the example for better understanding.*

*s0 = "hello my name is steve and using****abcde****"*

*s1 = "hello my name is steve and using****abcde abcde****"*

*s2 = "hello my name is steve and using****abcde lmno pqrst****"*

*s3 = "hello my name is steve and using****abcde abcde lmno****"*

*s0 and s1 come under****spam comment****message.*

*s2 and s3 comes under the****account ban****message.*

**-String commentTheString(String comment):**

* Write a code to put the comment on the post.
* If a checkComment method throws a **SpamCommentException** ,then return a message of that exception(Use try-catch block).
* If it throws any other exception then return a message "**other exception**".
* If no exception is found then return a message "**comment posted**".

class **SpamCommentException**

-Define **SpamCommentException** class derived from Exception class

**Sample Input**

Validator obj = new Validator();

-------------------------------------------

obj.checkComment("hello my name is steve");

obj.commentTheString("my **comment** **is** **safe** **to** post");

**Sample Output**

**comment** **is** **not** spam

**comment** posted

**NOTE:**

* You can make suitable function calls and use **the RUN CODE** button to check your **main()** method output.

**ALLOWED TECHNOLOGIES**

* Java 8

**TAGS**

* Java
* Exception Handling in Java

**CODE :**

//DOSELECT Problem Statement 5

//Class Validtor

**package** capgemini;

**import** java.util.\*;

**public** **class** Validator {

String checkComment(String comment) **throws** SpamCommentException

{

ArrayList<String>a=**new** ArrayList<>();

a.add("abcde");

a.add("lmno");

a.add("pqrst");

a.add("wxyz");

**int** count=0;

// String s[]=comment.split(" ");

// int n=s.length;

**for**(**int** i=0;i<4;i++)

{

count+=comment.split(a.get(i)).length-1;

}

**if**(count==1)

{

**throw** **new** SpamCommentException("spam comment");

}

**else** **if**(count>2)

**throw** **new** SpamCommentException("account ban due to spam comment");

**return** "comment is not spam";

}

String commentTheString(String comment)

{

**try** {

checkComment(comment);

}

**catch**(SpamCommentException e)

{

e.printStackTrace();

}

**catch**(Exception e)

{

e.printStackTrace();

}

**return** "comment posted";

}

}

//DOSELECT Problem Statement 5

//Class SpamCommentException

**package** capgemini;

**public** **class** SpamCommentException **extends** Exception

{

SpamCommentException(String s)

{

**super**(s);

}

}

//DOSELECT Problem Statement 5

//Class Main

**package** capgemini;

**public** **class** Validator\_main {

**public** **static** **void** main(String[] args) **throws** SpamCommentException {

Validator obj = **new** Validator();

// -------------------------------------------

String s1=obj.checkComment("hello my name is steve");

String s2=obj.commentTheString("my comment is safe to post");

System.***out***.println(s1);

System.***out***.println(s2);

}

}

**OUTPUT:**

