Dt : 22/9/2022

=>The following are some important Utility calsses on String Objects:

(a)StringTokenizer class

(b)StringJoiner class

(a)StringTokenizer class:

=>'StringTokenizer' class is from java.util package and which is used to break the given String into tokens(pieces) based on delimiter. (delimiter - break specification)

=>The following are some important methods of StringTokenizer:

(i)hasMoreTokens()

(ii)nextToken()

(iii)countTokens()

(i)hasMoreTokens():

=>This hasMoreTokens() method is used to check the token(piece) available or not,and generate boolean result.

Method Signature:

```
public boolean hasMoreTokens();
```

(ii)nextToken():

=>This nextToken() method will retrieve and delete token from the StringTokenizer object.

Method Signature:

public java.lang.String nextToken();

(iii)countTokens():

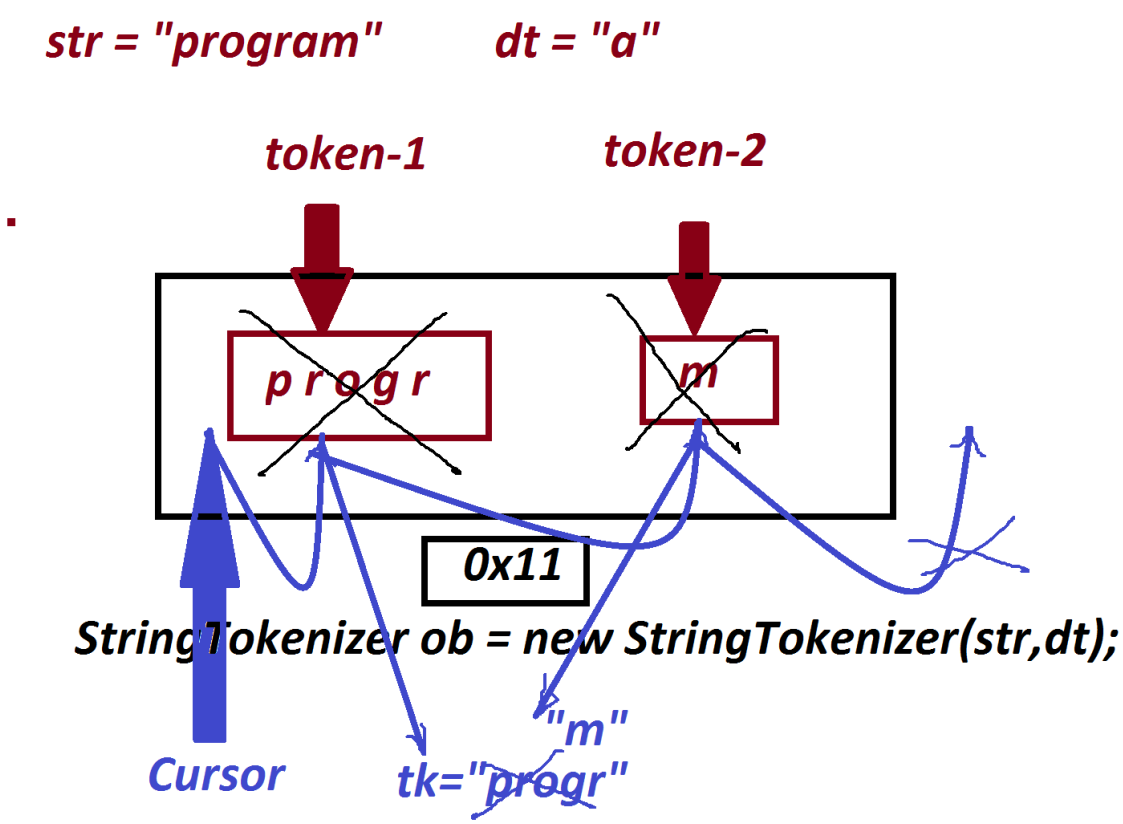
=>This countTokens() method is used to count number of tokens in StringTokenizer object.

Method Signature:

public int countTokens();

syntax:

StringTokenizer ob = new StringTokenizer(str,"delimiter");



Ex : DemoTokenizer1.java

```
package maccess;
import java.util.*;;
public class DemoTokenizer1 {
      public static void main(String[] args) {
       Scanner s = new Scanner(System.in);
       System.out.println("Enter the String:");
       String str = s.nextLine();
       System.out.println("str : "+str.toString());
       System.out.println("Enter the delimiter:");
       String dt = s.nextLine();
       StringTokenizer ob = new StringTokenizer(str,dt);
       System.out.println("====Details from StringTonizer====");
       int count = ob.countTokens();
       System.out.println("count : "+count);
       System.out.println("****Display Tokens****");
       while(ob.hasMoreTokens())
       {
       String tk = ob.nextToken();
       System.out.println("Token : "+tk.toString());
       System.out.println("Count : "+ob.countTokens());
       }//end of while
       s.close();
      }
}
```

o/p:

Enter the String:

java language programming

str : java language programming

Enter the delimiter:

a

====Details from StringTonizer====

count : 6

*****Display Tokens*****

Token : j

Count : 5

Token : v

Count : 4

Token : l

Count : 3

Token : ngu

Count : 2

Token : ge progr

Count : 1

Token : mming

Count : 0

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Assignment:

wap to read a string and reverse the words of given String?

i/p : java language program

o/p : avaj egaugnal margorp

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****imp***

(b)StringJoiner class:

=>StringJoiner class is from java.util package introduced by

Java8 version and which is used to join Strings based on delimiter.

=>The following are some important methods of StringJoiner:

public java.util.StringJoiner setEmptyValue

(java.lang.CharSequence);

public java.lang.String toString();

public java.util.StringJoiner add(java.lang.CharSequence);

public java.util.StringJoiner merge(java.util.StringJoiner);

public int length();

syntax:

StringJoiner sj = new StringJoiner("delimiter");

Ex : DemoJoiner.java

```
package maccess;
import java.util.*;
public class DemoJoiner {
     public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        StringJoiner sj1 = new StringJoiner("/");
        sj1.setEmptyValue("No details available...");
        System.out.println("====details from sj1====");
        System.out.println(sj1.toString());
        System.out.println("Enter date:");
        sj1.add(s.nextLine());
        System.out.println("Enter month:");
        sj1.add(s.nextLine());
        System.out.println("Enter year:");
        sj1.add(s.nextLine());
        System.out.println("====details from sj1====");
        System.out.println("DOJ : "+sj1.toString());
        StringJoiner sj2 = new StringJoiner("-");
        sj2.setEmptyValue("No Address available...");
        System.out.println("====details from sj2====");
        System.out.println(sj2.toString());
        System.out.println("Enter City:");
        sj2.add(s.nextLine());
        System.out.println("Enter mailId:");
        sj2.add(s.nextLine());
```

```
        System.out.println("Enter PhNo:");
        sj2.add(s.nextLine());
        System.out.println("====details from sj2====");
        System.out.println("Address : "+sj2.toString());
        System.out.println("====merge operation====");
        sj1.merge(sj2);
        System.out.println(sj1.toString());
        System.out.println("length : "+sj1.length());
        s.close();
    }
}
```

o/p:

====details from sj1====

No details available...

Enter date:

12

Enter month:

4

Enter year:

2022

====details from sj1====

DOJ : 12/4/2022

====details from sj2====

No Address available...

Enter City:

hyd

Enter mailId:

r@gmail.com

Enter PhNo:

9898981234

====details from sj2====

Address : hyd-r@gmail.com-9898981234

====merge operation====

12/4/2022/hyd-r@gmail.com-9898981234

length : 36

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