CECS 277

Fall 2020

Lab 1

08/26/20

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1. JavaDoc:
   1. What does the StringTokenizer class do?

It allows an application to break a string into tokens.

* 1. What do the methods countTokens() and nextToken() of the StringTokenizer class do?
* countToken() calculates the number of times that this tokenizer’s nextToken method can be called before it generates an exception
* nextToken() returns the next token from this string tokenizer
  1. What does the program print?

5

Marry

had

* 1. Edit the program:

import java.util.StringTokenizer;

public class StringTokenizerDemo{

public static void main(String[] args){

String sentence = "it’s,fleece,was,white,as,snow";

StringTokenizer mystery = new StringTokenizer(sentence,",");

System.out.println(mystery.countTokens());

System.out.println(mystery.nextToken());

System.out.println(mystery.nextToken());

}

}

What does it print this time?

6

It’s

fleece

1. Arrays:

import java.util.ArrayList;

public class Student

{

private String name;

private String id;

//constructor w/2 arguments

public Student(String name, String id)

{

this.name = name;

this.id = id;

}

//copy constructor

public Student(Student other)

{

this.name = name;

this.id = id;

}

//return the student's name as a string

public String getName()

{

return name;

}

//return the student's id as a string

public String getID()

{

return id;

}

//return a string of student name and id

public String toString()

{

return this.getName()+" "+this.getID();

}

//verify if two objects are identical

public boolean equals(Object other)

{

boolean result = false;

if (other instanceof Student) {

Student otherStudent = (Student) other;

result = id.equals(((Student) other).getID());

}

return result;

}

//main method

public static void main(String[] args)

{

//create 2 student objects

Student one = new Student("Tina","1234");

Student two = new Student("Michelle", "5678");

Student three = one;

//display 3 students objects

System.out.println(one);

System.out.println(two);

System.out.println(three);

//verify if 2 students are identical

if(one.equals(two)){

System.out.println("\nStudent one = Student two\n");

}

if(one.equals(three)){

System.out.println("\nStudent one = Student three\n");

}

if(two.equals(three)){

System.out.println("\nStudent two = Student three\n");

}

//create arraylist object

ArrayList array = new ArrayList();

//add three students objects to the arraylist

array.add(one);

array.add(two);

array.add(three);

//display all objects in the ArrayList

for(int i = 0; i < array.size(); i++){

System.out.println(array.get(i).toString());

}

}

}