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//HW 1
// 9-6-2019
import java.util.Scanner;
import java.lang.String;
import java.lang.Character;
import java.util.Arrays;
public class Clippy{
public static void main(String[] args){
    //create instance of scanner method
    Scanner scnr = new Scanner(System.in);
    //Assign the value of writeDocumment to a String so that it can be passed to
clippyMenu
    String userString = writeDocument(scnr);
    //call Clippy Menu
    clippyMenu(scnr, userString);
  }
  public static String writeDocument(Scanner scnr){
    //Ask user for his/her desired input
    System.out.println("Enter your text: ");
    String userString = scnr.nextLine();
    return userString;
 }
  public static void clippyMenu(Scanner scnr, String userString){
    //create empty string
    String functionString = " ";
    do {
      System.out.println("nwc - Number of non-whitespace characters");
      System.out.println("wc - Number of all characters");
      System.out.println("w - number of words");
System.out.println("f - find text");
      System.out.println("r - replace a word with another word");
      System.out.println("q - quit");
      functionString = scnr.nextLine();
      break:
    }while(functionString != "q");
    //for each case call upon the corresponding method. If the method requires
further
    //parameters ask the user for specific input within each specific case.
    switch (functionString){
      case "nwc":
       int numNonwhitespaceChar = numNonwhitespaceChar(userString);
       System.out.println(numNonwhitespaceChar);
       clippyMenu(scnr, userString);
       break;
      case "wc":
       int numAllChar = numAllChar(userString);
       System.out.println(numAllChar);
       clippyMenu(scnr, userString);
       break;
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case "w":
        int numWords = numWords(userString);
        System.out.println(numWords);
        clippyMenu(scnr, userString);
        break;
      case "f":
        System.out.println("Which word(s) are you looking for?");
        String findString = scnr.nextLine();
        boolean findText = findText(userString, findString);
        System.out.println(findText);
        clippyMenu(scnr, userString);
        break;
      case "r":
        System.out.println("Which word(s) are you looking for?");
        findString = scnr.nextLine();
        System.out.println("Which word(s) do you want to replace it with?");
        String replaceString = scnr.nextLine();
        findText(userString, findString);
        String replaceText = replaceText(userString, findString, replaceString);
        System.out.println(replaceText);
        clippyMenu(scnr, userString);
        break;
      case "q":
        boolean quit = quit(scnr);
        break;
      default:
        System.out.println("Please provide correct input.");
        clippyMenu(scnr, userString);
        break;
  }
 public static int numNonwhitespaceChar(String userString){
  int stringLength = userString.length();
   int wsCount = 0;
  for(int i = 0; i<stringLength; i++){</pre>
     if (userString.charAt(i) != ' ') {
       wsCount++;
     }
 return wsCount;
  public static int numAllChar(String userString){
   int numAllChar = userString.length();
  return numAllChar;
}
  public static int numWords(String userString){
  if (userString == null || userString.isEmpty()) {
      return 0;
   }
    int wordCount = 0;
   boolean isWord = false;
    int endOfLine = userString.length() - 1;
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char[] characters = userString.toCharArray();
    for (int i = 0; i < characters.length; <math>i++) {
      // if the char is a letter, word = true.
      if (Character.isLetter(characters[i]) && i != endOfLine) {
        isWord = true;
        // if char isn't a letter and there have been letters before,
        // counter goes up.
       else if (!Character.isLetter(characters[i]) && isWord) {
        wordCount++;
        isWord = false;
        // last word of String; if it doesn't end with a non letter, it
        // wouldn't count without this.
        else if (Character.isLetter(characters[i]) && i == endOfLine) {
        wordCount++;
      }
    }
   return wordCount;
  public static boolean findText(String userString, String findString){
  boolean isFound;
  if (userString.contains(findString)){
     isFound = true;
  }
  else{
     isFound = false;
  return isFound;
  }
  public static String replaceText(String userString, String findString, String
replaceString){
    String returnString = " ";
    if(findText(userString, findString) == true){
      returnString = userString.replace(findString,replaceString);
   else if(findText(userString, findString) == false){
      returnString = userString;
    return returnString;
  }
  public static boolean quit(Scanner scnr){
     boolean quit = false;
     System.out.println("Are you sure you want to quit? Enter y for yes or anything
else for no.");
     String quitString = scnr.nextLine();
     if (quitString.equals("y")){
       quit = true;
     if (quit == true){
          System.out.println("Program terminated.");
     else{
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