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Fundamentals of Programming I – CSIT 111\_04  
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November 15, 2017

## Lab 07 Report

```
// *****  
// Count.java  
//  
// This program reads in strings (phrases) and counts the  
// number of blank characters and certain other letters  
// in the phrase.  
// *****  
import java.util.Scanner;  
public class Count  
{  
    public static void main (String[] args)  
    {  
        String phrase; // a string of characters  
        int countBlank; // the number of blanks (spaces) in the phrase  
        int length; // the length of the phrase  
        char ch; // an individual character in the string  
  
        Scanner scan = new Scanner(System.in);  
  
        // Print a program header  
        System.out.println ();  
        System.out.println ("Character Counter");  
        System.out.println ();  
  
        phrase = "";  
        while (!phrase.equalsIgnoreCase("quit")) {  
  
            // Read in a string and find its length  
            System.out.print ("Enter a sentence or phrase, or quit to quit: ");  
            phrase = scan.nextLine();  
            length = phrase.length();  
  
            // Initialize counts  
  
            countBlank = 0;  
            int countA = 0;  
            int countE = 0;  
            int countS = 0;  
            int countT = 0;  
            int i = 0;
```

```

// a for loop to go through the string character by character
// and count the blank spaces
for (i = 0; i < length; ++i) {
    ch = phrase.charAt(i);
    switch (ch) {
        case ' ':
            ++countBlank;
            break;
        case 'a':
        case 'A':
            ++countA;
            break;
        case 'e':
        case 'E':
            ++countE;
            break;
        case 's':
        case 'S':
            ++countS;
            break;
        case 't':
        case 'T':
            ++countT;
            break;
    }
}

// Print the results
System.out.println ();
System.out.println ("Number of blank spaces: " + countBlank);
System.out.println ("Number of a's: " + countA);
System.out.println ("Number of e's: " + countE);
System.out.println ("Number of s's: " + countS);
System.out.println ("Number of t's: " + countT);
System.out.println ();
}
}

```