

### Assignment #3

**Due Date:** Friday March 10, 2017 11:59PM

The goal of this assignment is to practice code commenting and input and output operations.

Write a Java program that performs the following steps. Remember to place proper comments in your code. Your program must compile and run in order for your submission to be graded.

1. Using the *Scanner* class, prompt the user to enter a line. Read the line from the user and store in a variable.
2. Using the *JOptionPane* class, display the following message:

The original line entered  
The line entered converted to upper letter  
The line entered converted to lower letter  
The number of characters in the line  
The first character in the line  
The last character in the line  
The 1<sup>st</sup> index of the letter "s". Remember to display the quotes.  
The 2<sup>nd</sup> index of the letter "s". Remember to display the quotes.  
10 character starting from the middle of the line

#### Grading:

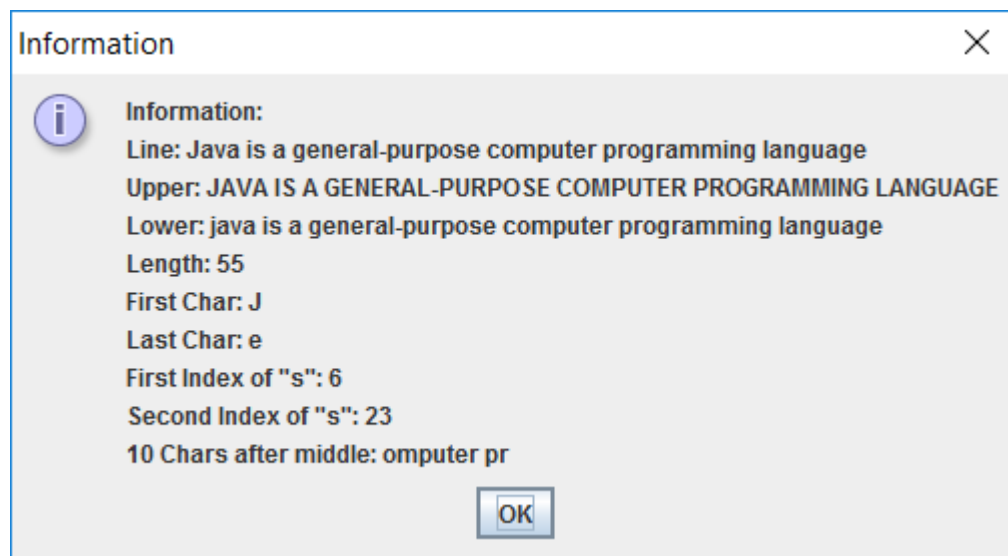
Item	Weight
✓ Comments: code must be properly commented. Your name should be at the top of the source file. Major statements in your code must be commented.	2
✓ Prompt using <i>Scanner</i>	2
✓ Output using <i>JOptionPane</i>	6
<b>Total:</b>	<b>10</b>

#### Sample Run 1:

##### Input:

Java is a general-purpose computer programming language

##### Output:



**Sample Run 2:**

**Input:**

**An operating system (OS) is system software that manages computer hardware and software resources**

**Output:**

