## CS/SE 2S03 Tutorial #5 Exercises

1. Consider the following string:

String hannah = "Did Hannah see bees? Hannah did.";

- a. What is the value displayed by the expression hannah.length()?
- b. What is the value returned by the method call hannah.charAt(12)?
- c. Write an expression that refers to the letter b in the string referred to by hannah
- 2. How long is the string returned by the following expression? What is the string?

"Was it a car or a cat I saw?".substring(9, 12)

3. Write a program that asks the user for relevant information (indicated by the upper case words below) in order to print the following horoscope for the user:

Expect bad news, NAME. Your manager, MANAGER, is not happy with WHATEVERYOUDO, and is planning to move you to the DEPARTMENTNAME department. Your salary will be reduced by PERCENT%. But your manager also has a surprise coming: SURPRISE.

4. Write a program that reads a line of text from the keyboard, and prints an acronym formed from the first letter of the word.

Example:

## **Table of String Functions**

public class String (Java string data type)

	String(String s)	create a string with the same value as $\mathbf{s}$
int	length()	string length
char	charAt(int i)	ith character
String	<pre>substring(int i, int j)</pre>	ith through (j-1)st characters
boolean	contains(String sub)	does string contain sub as a substring?
boolean	startsWith(String pre)	does string start with pre?
boolean	endsWith(String post)	does string end with post?
int	indexOf(String p)	index of first occurrence of p
int	indexOf(String p, int i)	index of first occurrence of p after i
String	concat(String t)	this string with t appended
int	compareTo(String t)	string comparison
String	replaceAll(String a, String b)	result of changing as to bs
String[]	split(String delim)	strings between occurrences of delim
boolean	equals(String t)	is this string's value the same as t's?

http://introcs.cs.princeton.edu/java/11cheatsheet/