**Lab #1: Words**

**Objective:** This lab is intended to allow you to practice declaring, initializing and using variables, as well as practice using print statements.

1. What data type would be appropriate to choose for a variable to store a person's name?
2. What is the name of the variable for the following variable?

letter = “L”

1. What is the name of the variable for the following variable?

movieName = “Harry Potter”

1. Declare and initialize a variable named myGrade, to contain the letter grade you would like to make in your math class.
2. Declare and initialize a variable named planetName, to contain the name of the first planet you can think of.
3. What is the value stored in the variable *word* after the following lines of code are executed.

word = “hey”

letter = “t”

word = letter + word;

1. What is the value stored in the variable *word* after the following lines of code are executed.

word = “hi”

newWord = “there”

word = word + “ “ + newWord

1. What is the value stored in the variable *word* after the following lines of code are executed.

word = “hello”

word = word[3]

1. What is the value stored in the variable *word* after the following lines of code are executed.

word = “he”

newWord = “shine”;

word = newWord[0] + word

1. What is the value stored in the variable *word* and *newWord* after the following lines of code are executed.

word = “I love CS!”

newWord = word[3: (len(word) - 3)];

**\*Note:** For each of the following questions, you should actually write them in your IntelliJ in order to test them. Then, copy and paste your main method below each question.

1. Write a program in a main method that performs the following output:
2. Write a program in a main method that performs the following:

* Creates a variable to store a string with an odd amount of characters
* Split the string into two and store the two halves into new variables.
* Combine the two halves into a new variable where the original string has now had its two halves flipped
* Print the new variable to the screen
* EX: Original String: “World” Output: “ldWor”

1. Write a program in a main method that performs the following:

* Creates a variable to store a string that could be of any length
* Create two new variables that will contain the first and last characters in the original string
* Create a new string variable that will contain everything else from the original other than the first and last characters.
* Print the three new variables to the screen. Be sure to denote what each one means