Name:_____ Student Id:_____

In order to solve this lab you will need Java API help. You need to understand the concept of methods and properties. We will use some methods of the String class, which is located in the *lang* package.

You can think in a String as a set of ordered chars:

H	E	L	L	O

Write a different class for each problem:

1. Print the number of chars contained in a word. Example:
   Write the word: Fundamentos
   The word Fundamentos has 11 chars or letters.

2. Print whether or not two words are equal regardless of the use of lower and uppercase. Example:
   Input the first word: Fundamentos
   Input the second word: fundaMentOs
   Both words are equal.

3. Input one word or sentence and then print it char by char. Example:

   Input your word: Gerardo
   Your word is:
   G
   e
   r
   a
   r
   d
   o

4. Input one word and then ask for a position. Your program should tell you the character in that position. Example:
   Input your word: Programming
   What position: 3
   Letter g is in the position number 3

5. Write a program to input one word and then one letter, your program will tell you if that letter exists within the word. Example:
   Input the word: Programming
   Input the letter you wish to find: z
   z does not exist in the Programming word.

6. Write a program to trim a word. You should input the word, the initial and final position to trim that word. We also want to know the size of that word. Example:

    Input the word: Admissions
    Where to begin?: 2
    Where to end?: 8
    Your segment is: mission and the original word is size 10

A	d	m	i	s	s	i	o	n	s
0	1	2	3	4	5	6	7	8	9

7. Write a program to print a word char by char. Please observe the example to print the word in the exact same way. Example:

    Input your word: GerArdo
    Your word now looks like:
    G g
    E e
    R r
    A a
    R r
    D d
    O o

8. Print a word in reverse order. Example:

    Input the word: Gerardo
    Your new word: odrareG

9. Write a program to input one word and then ask for a char. Your program must tell how many times that char appears in the word. Example:

    Input the word: Gerardo
    Char to find: r
    Letter r appears 2 times in the word Gerardo

    Input the word: Gerardo
    Char to find: m
    Letter m appears 0 times in the word Gerardo