	Go to	Exploring the Java API <a href="http://download.oracle.com/javase/8/docs/api/">http://download.oracle.com/javase/8/docs/api/</a>
1		e API for the String class (java.lang.String) to answer the following questions. Assume that
	string	11 and <b>string2</b> are variables declared as type <b>String</b> . Also assume that <b>num</b> is an <b>int</b> variable. a complete Java statement as an answer for each question:
	a.	How would you find the first position in a string?  "string".substring(0, 1)
	b.	How would you find the last position in a string?  string.length() - 1;
	c.	How would you remove leading and trailing spaces from a string?  string.trim()
	d.	How do you get the number of characters in a string?
	e.	How can you tell if two strings have the same characters? compareTo(String anotherstring), or indexOf(String str, ?
	f.	How can you create a new string from the 1 <sup>st</sup> character to the 9 <sup>th</sup> character of a string? string.substring(0, 8)
	g.	How can you create a new string from the 3 <sup>rd</sup> character to the 7 <sup>th</sup> character of a string? string.substring(2, 6)
	h.	How can you create a new string from the 5 <sup>th</sup> character to the end of a string? string.substring(4)
	i.	How can you join two strings together into a new string?  new string = string1 + string2
2.	Use th	e API for the Scanner class (java.util.Scanner) to answer the following:
	a.	What two lines of code would you write to read a number from keyboard input using a <b>Scanne</b> object with the identifier <b>keyln</b> and store in the <b>int</b> variable <b>num</b> ?  Scanner keyln = new Scanner(System.in);
		int num = keyln.nextInt();
	b.	What <b>Scanner</b> method would you use to get a <b>String</b> value from the input source and store it into a <b>String</b> variable called <b>string1</b> ?

- c. What is the difference between the **Scanner** methods **next()** and **nextLine()**? next() gets the next string

  nextLine() gets the entire line as a string
- d. How can you determine if there another token to be read? In other words, which Scanner method would you call to get a true/false response to tell you if there was any more input?
  keyin.next();
- 3. Use the API for the Math class (java.lang.Math) to answer the following:
  - a. How can you use the Math class to calculate 2 to the 10<sup>th</sup> power? math.pow(2, 10)
  - b. How can you use the Math class to find the square root of 100? math.sqrt(100)
  - c. How can you use the Math class to round a decimal number, 3.14150? math.round(3.14150)
  - d. How can you use the Math class to generate a random number between 1 and 10, inclusive? math.random(
- 4. Use the API for the Integer class (java.lang.Integer) to answer the following:
  - a. What method can you use to convert string to a primitive type int value?
     parseInt(string)
- 5. Use the API for the Double class (java.lang.Double) to answer the following:
  - a. What method can you use to convert a string to a primitive type double value? parseDouble(string)