Object Oriented Java - Practical Study #3

- The objective of this practical study is to practice using packages to organize Java source files and gain skills in using Java basic statements in manipulating String and array structures.
- The requirement is to implement a class method that sorts an array of string variables in ascending order according to their length.

Please follow the instructions below:

1. Create the **Prac3** project for this session.

2. Carefully study the **strSort.java**: source file. It contains the main function that initializes a ***string array*** and calls a sort method (**ascendingSort()**) of another class (**sort**) to sort the array in ascending order as described above.

   ⌀ Note that the **strSort** class belongs to the **StringSorting** package.

3. Add a new file to the package (**sort.java**) that contains a **sort** class which implements the **ascendingSort()** method used in strSort.class as shown below. This method should accept a string array (of any length), and sort its elements in ascending order.

   ⌀ to add the file, use [**File → New File → Java → Java Class]**, entering "**sort**" as the [Class Name] and **"StringSorting"** as the [Package].

   ⌀ Try to use the on-line help to find more about the specifications of the **String** class. (ask your tutor about using Netbeans ***intelligent-sensor*** to browse class's methods and variables).

4. Change the **strSort** to read the array elements from the console (user input from command line) and sort the new elements.

```
//file strSort.java - exists
package StringSorting;
class strSort {

  main (…
  {  initialise strArray;
     Create an instance of the "sort" class;
     Call ascendingSort for "strArray";
     print sorted array;
  }
}
```

```
//file sort.java – you have to create this
package StringSorting;
class sort {

  public void ascendingSort ( String sr[] )
  {
   …..
  }
  ….
}
```