RECITATION 3

In this assignment you will write a program to filter the uppercase letters in an input string. It is pretty much like the program in the lecture, but this time it should be implemented as a bean class that implements an interface. And you also use ObjectEditor to enter the input string and to get the uppercase string, which is a string consisting of all of the upper case letters in the input string.

- To follow the bean pattern, you should have two string properties:
 - inputString
 - uppercaseLetters
- You also need two getter methods for each of the properties: InputString, UppercaseLetters.
- Since the input string is the user specified variable while the uppercase letter string is not, you should only have one setter method, which is for the input string.
- You can either put the code for filtering in the getter method, setter method or in a separated method.
- You have to put tracing print statements in the getters and setters.
- e.g.,System.out.println("getInputString is called")
- This will let you know when your method has been called

- Make sure you create an interface for your bean class class. We provide the main class.
- Name your interface "UppercaseFilter"
- Name your class "An UppercaseFilter"
- You need to add annotations above the header of the class.

The annotations are:

import util.annotations.StructurePattern; import util.annotations.StructurePatternNames; import util.annotations.EditablePropertyNames; import util.annotations.PropertyNames; @StructurePattern("Bean Pattern") @PropertyNames({"InputString","UppercaseLetters"}) @EditablePropertyNames({"InputString"}) The code of the main method is provided. So you need to name the class and interface accordingly (class name: AnUppercaseFilter. Interface name: UppercaseFilter).

Also note the import statement and "ObjectEditor.edit(filter)". Later you will need the code to use ObjectEditor in homework.

import bus.uigen.ObjectEditor;
public class Driver {
 public static void main(String[] args){
 UppercaseFilter filter = new AnUppercaseFilter();
 filter.setInputString("Initial Input");
 ObjectEditor.edit(filter);
 }

Bean Pattern:

http://www.cs.unc.edu/~dewan/comp114/current/ Lectures/ClassDualRoles-F15.pdf

Interface: http://www.cs.unc.edu/~dewan/comp114/ current/Lectures/RecursionInterfaces.pdf