

ITEC 2610 *Assignment Three*

In: Nov. 9th, Before Class

Questions

1. The interface **Speaker** is describe below.

```
public interface Speaker{
    public void speak();
    public void announce(String str);
}
```

Implement **Speaker** in three ways. Create a driver class whose **main** method instantiates some of these objects and tests their abilities.

2. Design and implement a program that creates an exception class called **StringTooLongException**, designed to be thrown when a string is discovered that has too many characters in it. In the main driver of the program, read strings from the user until the user enters “DONE”. If a string is entered that has too many characters (say 20), throw the exception. Allow the thrown exception to terminate the program. Modify the solution such that it catches and handles the exception if it is thrown. Handle the exception by printing an appropriate message, and then continue processing more strings.

What to submit

- A PDF file including pages in the following order,
 - (A cover page) with print-out of
 - * Your Name/ID, and
 - * The statement: *I have read and understood the Academic Honesty Statement specified in the course outline, and I have adhered fully at all time to the academic honesty rules and policies laid by the instructor, the School of Information Technology and York University Senate’s Academic Integrity Policy.*
 - (Question 1 source code and sample outputs)
 - (Question 2 source code and sample outputs)
- A zipped file containing the source codes for questions. (Your program will be evaluated on correctness, conciseness, and neatness (readability)).