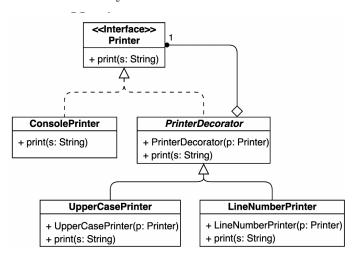
CSF202 - Lab Class 6 - Wednesday 28/10/2020

This lab class involves getting some hands-on experience with coding an example of the Decorator Design Pattern in Java.

\square Task 6.1

Recreate the Decorator Pattern as it was applied in the lecture, some code is available in the slides the rest you will have to write yourself.



\square Task 6.2

Add the FilePrinter component class. This should work in a similar manner to ConsolePrinter but strings that are "printed" should be written to a file. The filename should be provided in the constructor.

□ Task 6.3

Add the LineWrappingPrinter decorator class. This should add line wrapping behaviour to the component that it decorates. The constructor should take, in addition to a Printer, an integer which represents the maximum number of characters to be printed on any one line. If we set this number to 5 and printed the string "Tom's labs are the best labs." the output should be:

Tom's labs are the b est l abs.

Lab continues on next page...

☐ Task 6.4

Add one more decorator class of your choosing then test everything you have done.

- Try decorating a Console Printer with various decorators.
- Try decorating a FilePrinter with various decorators.
- Write a simple method that makes use of a Printer argument. Try providing the method with both a concrete printer object and with a decorated printer object. Notice that your method didn't have to change.