

Industrial Software Development (ISDe)

Exercise 2 (45 min)

USE THE STATE DESIGN PATTERN and the TRANSITION TABLE approach

Use abstract classes if needed.

A **Printer** object receives characters using the **process()** method (one character at a time). In the initial state, the object prints each character received. If it receives the 'h' character, it prints 'h' and changes its behavior. The new behavior is as follows. The object prints the first character, does NOT print the second, prints the third, and so on. If it receives the 'h' character again, it prints 'h' and returns to the initial state.

Write a module **printer.py** that can be used with the assigned **main.py**. Complete the **main.py** if needed.

The assigned **main.py** contains (as a comment) the correct, expected output.

Be sure to submit both the **main** and the **module**. Your program must work correctly and produce the correct output.

Produce two version of the program:

2.a) USE THE STATE DESIGN PATTERN

2.b) USE THE TRANSITION TABLE approach