

CS 3750 [Fall 2017]

Assignment 4

[This is a pair-programming assignment. Two students will work together to solve the problem. Only one submission from each pair is expected. However, if a student does not find another to work with, he/she may submit the assignment individually.]

Due date: Thursday, 12 September 2017, by 11:00 p.m.

A keylogger program captures the keystrokes that a user makes to supply input. In this assignment you are required to simulate a keylogger. That is, you are required to create a program that behaves like a keylogger. The program will capture the keystrokes and displays the output on screen.

Task:

Write a Java program that captures the keystrokes a user makes and displays the result after each keystroke. You can assume a standard QWERTY keyboard. Typically, the output is displayed as follows:

```
...  
<key> pressed  
<key> typed  
<key> released  
...
```

When multiple keys are pressed together (for example, CTRL or SHIFT followed by another) then the key pressed and key released sequences are “nested” appropriately.

Hint: Creating a text field using Java GUI and then using KeyEvent class and/or KeyListener API could be useful to complete the assignment. However, you may use other classes/methods from Java API to solve the problem.

Submission instructions:

1. Name the program file as *lastname1_lastname2.java* where lastname1 and lastname2 are last names of the students in the pair. In case of individual submission, name the program file as *lastname.java*.
2. Use Java comments to include students’ name as author at the beginning of the program file.
3. Submit the program file through BlazeVIEW submission box.