

Editor.java

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/*****
 * Class for overall Editor object in Ted Editor; processes user input
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 */
public class Editor implements IEditor {

    //Process and "running" boolean instance variables
    private CmdProcess process;
    private boolean active = true;
    //End the program by setting this boolean to false,
    //use while loop to keep program running in a main method

    /*****
     * Constructs new Editor object, instantiates command processing
     */
    public Editor() {
        process = new CmdProcess();
    }

    /*****
     * Switch statement to process user input commands
     */
    public void processCommand(String command) {
        String[] token = command.split(" ");
        try {
            switch (token[0].trim().toLowerCase()) {

                case "b":    process.insertBefore(command.substring(2));
                            break;

                case "e":    process.insertLast(command.substring(2));
                            break;

                case "i":    process.insertAfter(command.substring(2));
                            break;

                case "m":    if (token.length == 2) {
                                process.down(Integer.parseInt(token[1].trim()));
                            }
                            else {
                                process.downOnePos();
                            }
                            break;

                case "u":    if (token.length == 2) {
                                process.up(Integer.parseInt(token[1].trim()));
                            }
                            else {

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        process.upOnePos();
    }
    break;

case "r":    if (token.length == 2) {
              process.remove(Integer.parseInt(token[1].trim()));
            }
            else {
              process.removeCurrentLine();
            }
            break;

case "d":    if (token.length == 3) {
              int x = Integer.parseInt(token[1].trim());
              int y = Integer.parseInt(token[2].trim());
              process.display(x, y);
            } else if (token.length == 1) {
              process.displayFile();
            }
            break;

case "c":    if (process.isSaved())
              process.clearFile();
            else {
              System.out.print("File not saved! ");
              System.out.println("Save (s) or force-clear (!c)");
            }
            break;

case "!c":   process.clearFile();
            break;

case "s":    process.saveFile(token[1].trim());
            break;

case "l":    if (process.isSaved())
              process.loadFile(token[1].trim());
            else {
              System.out.print("File not saved! ");
              System.out.println("Save (s) or force-load (!l)");
            }
            break;

case "!l":   process.loadFile(token[1].trim());
            break;

case "h":    System.out.println(process.showHelp());
            break;
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        case "x":    if (process.isSaved()) {
                        System.out.println("Closing Ted Editor. Goodbye!");
                        active = false;
                    } else {
                        System.out.print("File not saved! ");
                        System.out.println("Save (s) or force-quit (!x)");
                    }
                    break;

        case "!x":   System.out.println("Closing Ted Editor. Goodbye!");
                    active = false;
                    break;

        case "cut":  process.cutSelection(Integer.parseInt(token[1].trim()),
                                           Integer.parseInt(token[2].trim()),
                                           Integer.parseInt(token[3].trim()));
                    break;

        case "pas":  process.pasteClipboard(Integer.parseInt(token[1].trim
    ())),);
                    break;

        default:    System.out.println("Invalid Command!");
                    break;
    }
    } catch (NumberFormatException e) {
        System.out.println("Invalid Command! Numeric parameters only.");
    } catch (IndexOutOfBoundsException f) {
        System.out.println("Invalid Command! Enter a string to use.");
    } catch (NullPointerException n) {
        System.out.println("Object Not Found! Please create things before
atmpting to use them.");
    }
}

/*****
 * Gets line of lineNumber matching the input parameter
 * @param lineNbr number of line to be fetched
 * @return line matching input line number
 */
public String getLine(int lineNbr) {
    Line l = process.getList().getHead();
    for (int i=1; i<=lineNbr; i++)
        l = l.getNext();
    return l.toString();
}

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/*****
 * Gets line currently labeled as current
 * @return current Line object
 */
public String getCurrentLine() {
    return process.getList().getCurrent().toString();
}

/*****
 * Gets running status of program
 * @return true if still running, false if program has been exited
 */
public boolean getActive() {
    return active;
}

/*****
 * Gets CmdProcess object (used here for JUnit testing)
 * @return CmdProcess object
 */
public CmdProcess getProcess() {
    return process;
}
}

```