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Code

```

import java.util.*;
import java.io.*;
/**
 * This class is used to create a new text file.
 * There are command ADD,DISPLAY,DELETE,CLEAR and EXIT for user to manipulate
 * the content of the file.
 *
 * Assumption: There is no current file that user wants to append.
 * Instead: By using this java code, user wants to create an entirely new file
 * in the directory, and having the ability to add, remove and modify the content
 * inside that file.
 *
 * Assumption on input of file: to initialize and create the file user will have to input
 * javac TextBuddy.java
 * java TextBuddy mytextfield.txt < testinput.txt
 * the name of the file "mytextfield.txt" could be replaced by any other name
 *
 * Assumption on input of command:
 * A valid command would have this form
 * [command word] [additional info depends on the command] [enter]
 * COMMAND WORDS are: ADD,DISPLAY,DELETE,CLEAR, EXIT (input of lowercase or uppercase letter is fine)
 */
public class TextBuddy {

    private static final String MESSAGE_WELCOME = "Welcome to TextBuddy %1$s is ready for use";
    private static final String MESSAGE_COMMAND = "command: ";
    private static final String MESSAGE_INVALID = "INVALID command:";

    // These are used to indicate the action taken by the file.
    private static final String MESSAGE_COMMAND_NULL = "Error reading file %1$s !";
    private static final String MESSAGE_ADDING = "added to %1$s : \" %1$s \\\" ";
    private static final String MESSAGE_EMPTY= "%1$s is empty!";
    private static final String MESSAGE_DELETE = "deleted %1$s : \" %2$s\\\"";

    // These are used to indicate the error from different exception.
    private static final String MESSAGE_UNRECOGNIZE = "Unrecognized command input!";
    private static final String MESSAGE_ERROR_ADDING = "Error adding to file %1$s !";
    private static final String MESSAGE_ERROR_DELETING = "Error deleting file %1$s !";
    private static final String MESSAGE_ERROR_CLEARING = "Error clearing file %1$s !";
    private static final String MESSAGE_ERROR_READING = "Error reading file %1$s !";

    // These are the possible command types
    enum COMMAND_TYPE {
        ADD, DISPLAY, DELETE, CLEAR, INVALID, EXIT
    };
}

```

```

public static void main(String[] args) {
    String fileName = getFileName(args);
    welcomeUser(fileName);
    Scanner sc = new Scanner(System.in);
    String command = sc.next();
    executeCommand(fileName, sc, command);
}
}

```

TestInput.txt

Your test input goes here. Just copy paste from the file you used to test TextBuddy.

add little brown fox

display

add jumped over the moon

display

delete 2

display

add this is going to be the third line

display

clear

display

exit

ExpectedOutput.txt

Just copy paste from the file you used to test TextBuddy.

Welcome to TextBuddy mytextfile.txt is ready for use

command:

add little brown fox

added to mytextfile.txt: "little brown fox"

command:

display

1. little brown fox

command:

add jumped over the moon

added to mytextfile.txt: "jumped over the moon"

command:

display

1. little brown fox

2. jumped over the moon

command:

delete 2

deleted mytextfile.txt: "jumped over the moon"

command:

display

1. little brown fox

command:

add this is going to be the third line

added to mytextfile.txt: "this is going to be the third line"

command:

display

1. little brown fox

3. this is going to be the third line

command:

clear

command:

display

mytextfield.txt is empty

command:

exit