**General Method used in testing**

* System Testing through the console to check for bugs in the output
* Using junit to perform unit, test, integration test and system test
* Create a “BugTest” source folder which contains all the Junit testing for the program
* “BugTestFiles” folder contains the input and expected output files for the application
  + Folders are labelled according to the application it was used. E.g. wcFiles, sortFiles

**Bug Reports**

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| --- | --- | --- | --- |
| No. | Description | Testcase | Comments |
| 1 | “echo test|echo test1” print out “test|echo test1” instead of “test1”. The program never support pipe without space | TestBugPipe.java   * testBugPipeTwoCommandsWithoutSpace   Command   * echo test|echo test1   Expected Output   * “test1” |  |
| 2 | “cat BugTestFiles/globFiles/testing\*/test.txt” return exception instead of print test.txt file in all testing\* folder. | TestBugGlobbing.java   * testBugGlobbingFolderName ()   Command   * cat BugTestFiles/globFiles/testing\*/test.txt   Files uses inside in “BugTestFiles/globFiles” folder   * testingFolder/test.txt   Expected Output   * test 2 test 2 test 2 |  |