BLACK BOX TEST PLAN

For my black box test cases I will use the following files:

ahnentafel.txt -

```
1  Billy Smith
2  Charles Smith
3  Betty Jones
4  Henry Smith
5  Jane Williams
6  William Jones
7  Catherine King
8  Jimmy Smith
9  Joanne Harper
10 Richard Williams
11 Sally Poole
```

To Start the program, enter pre-order and post-order files into the command line or a single ahnentafel file into the command line and run AncestryGUI.java

Test ID	Description	Expected Results	Actual Results
testUserInput: (User gives three traversal files instead of two – BVA – x > 2)	**Preconditions:** AncestryGUI.java works **Steps:** Enter – "postorder.txt" "preorder.txt" "preorder.txt" as command line arguments Run AncestryGUI.java	GUI shows an error message stating: "Please only enter one or two commands."	**GUI shows an error message stating:** **"Please only enter one or two commands."**
			GUI appears on the screen.

testLevelOrder Traversal: (User processes ahnentafel file and receives level order output – ECP)	**Preconditions:** AncestryGUI.java works and "ahnentafel.txt" exists **Steps:** Enter – "input/ahnentafel.txt" as a command line argument Run AncestryGUI.java	GUI appears on the screen. GUI shows the level order traversal of the file: "LevelOrder[Smith, Billy; Smith, Charles; Jones, Betty; Smith, Henry; Williams, Jane; Jones, William; King, Catherine; Smith, Jimmy; Harper, Joanne; Williams, Richard; Poole, Sally]"	**GUI shows the level order traversal of the file:** **"LevelOrder[Smith, Billy; Smith, Charles; Jones, Betty; Smith, Henry; Williams, Jane; Jones, William; King, Catherine; Smith, Jimmy; Harper, Joanne; Williams, Richard; Poole, Sally]"**
testPostAndPre OrderTraversal: (User gives a preorder file that does not exist – DT)	**Preconditions:** AncestryGUI.java works Preorder file you are passing in does not exist **Steps:** Enter "nonexistentpreorder.txt" "postorder.txt" as command line arguments Run AncestryGUI.java	GUI appears and shows that a FileNotFoundException has been thrown by stating: "FNF" in a popup message.	**GUI appears and shows that a FileNotFoundException has been thrown by stating: "FNF" in a popup message.**