Due to time constraints, the project no longer uses a GUI, but all user interface is done via the console. The black box tests from Part 1 of the project have been altered slightly to reflect this, but each test still tests the same thing.

For these black-box test cases, we will be using a test file called ahn-input.txt which contains:
```
1 Billy Smith
2 Charles Smith
3 Betty Jones
4 Henry Smith
5 Jane Williams
```

Test ID	Description	Expected Results	Actual Results
readingInvalidFile(DT - trying to read a non-existent file)	Preconditions: • AncestryTreeUI has been loaded successfully • missing-input.txt does not exist Steps: • Enter "missing-input.txt" into console	Pop-Up displays: "<Path to file for your OS>"/missing-input.txt (The system cannot find the file specified) Program exits	Pop-Up displays: "<Path to file for your OS>"/missing-input.txt (The system cannot find the file specified) Program exits
processingValidFile (ECP - processing and building a tree based on valid file)	Preconditions: • AncestryTreeUI has been loaded successfully • ahn-input.txt exists Steps:	There is no error reported. Output text field contains: "LevelOrder[Smith, Billy; Smith, Charles; Jones, Betty; Smith,	There is no error reported. Output text field contains: "LevelOrder[Smith, Billy; Smith, Charles; Jones, Betty; Smith,

	• Enter "input/ahn-input.txt" • Enter "quit"	Henry; Williams, Jane" Program exits	Henry; Williams, Jane" Program exits
determineRelationshipOfRoot(BVA - asking for program to determine the relationship of the root of the family tree with itself)	Preconditions: • AncestryTreeUI has been loaded successfully • ahn-input.txt exists Steps: 1. Enter "input/ahn-input.txt" 2. Enter "Billy Smith" 3. Enter "quit"	There is no error reported. Output text field contains: "LevelOrder[Smith, Billy; Smith, Charles; Jones, Betty; Smith, Henry; Williams, Jane" There is no error reported. Console output: "Billy Smith is Billy Smith" Program exits	There is no error reported. Output text field contains: "LevelOrder[Smith, Billy; Smith, Charles; Jones, Betty; Smith, Henry; Williams, Jane" There is no error reported. Console output: "Billy Smith is Billy Smith" Program exits