Testing (Only done with methods with Methods that have mistakable user inputs)

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| **Subprogram** | getTextFile |
| **Description** | Opens up a file and returns it |
| **Inputs:** | Filename, opentype |
| **Outputs:** | fileObject |

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| **Test #** | **Inputs** | **Expected Result** | **Actual Result** | **Pass (y/n)** |
| 1 | “users.txt”, “r” | “Data.txt” outputted in read mode | “Data.txt” outputted in read mode | Y |
| 2 | “users.txt”, “w” | “Data.txt” outputted in write mode | “Data.txt” outputted in write mode | Y |
| 3 | “Swag.txt”, “w” | Error: Text file does not exist | Error: Text file does not exist | Y |
| 4 | “users.txt”, “lo” | Error: “lo” open type does not exist. | Error: “lo” open type does not exist. | Y |

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| **Subprogram** | login(self) |
| **Description** | Logs the user into the program and displays main program. |
| **Inputs:** | 1. Username - String - Valid Username  2. Password - String - Matching Password |
| **Outputs:** | Main Program Screen |

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| **Test #** | **Inputs** | **Expected Result** | **Actual Result** | **Pass (y/n)** |
| 1 | “Eugene”, “Cho” | Successful login to program | Successful login to program | Y |
| 2 | “”,””,””,”” | Error: Wrong Username and Password | Error: Wrong Username and Password | Y |
| 3 | “Yuggin”, “Choo” | Error: Wrong Username and Password | Error: Wrong Username and Password | Y |

The rest of the methods do not have a user input other than mouse coordinates and buttons.