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| **Test Case ID** | **Test Case** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Solution** |
| 1 | Input a string and out of range number as choice | Avoiding value error and display a message to re-enter the choice | Same to expected result | Pass |  |
| 2 | Input string as data points | Avoiding value error and display a massage to re-enter data points | Same to expected result | pass |  |
| 3 | Input a name not in the list to analyze, update and delete | Avoiding errors and display a message to re-enter the name | Same to expected result | Pass |  |
| 4 | Trying to analyze, save, update and delete before enter entries | Avoiding errors and display a message | Same to expected result | Pass |  |
| 5 | Delete the file and trying to save entries | Re-create the file and save entries to the file | Same to expected result | Pass |  |
| 6 | Open file in “wb” and “rb” save the entries to avro file | Save the entries to the file | Entries saved to the file but can’t read(because of the bite write mode) | Fail | Add another option to convert the file in readable mode and load to the system |