Testing scripts

This document covers the testing performed against the python algorithm assignment. It will cover test scenarios and evidence for searching/reading data, writing new records, deleting, updating and restoring records. The testing covers the following functionality:

- enter at least five records
- delete and search records based on keyword/string entry
- sort records in a specific order and display them on the screen
- select an option on the screen to perform a function
- get a prompt on screen before an action is performed

Requirements:

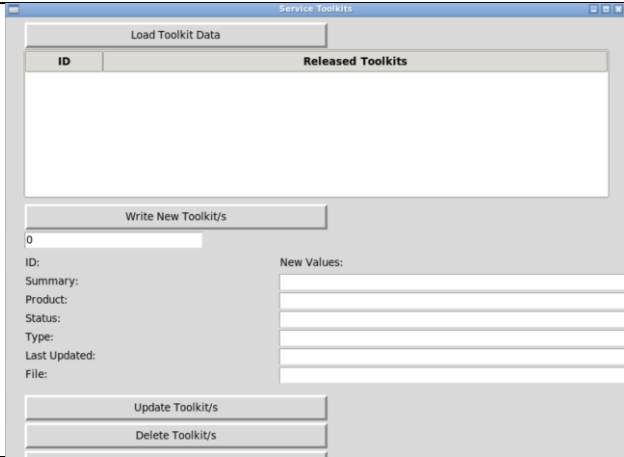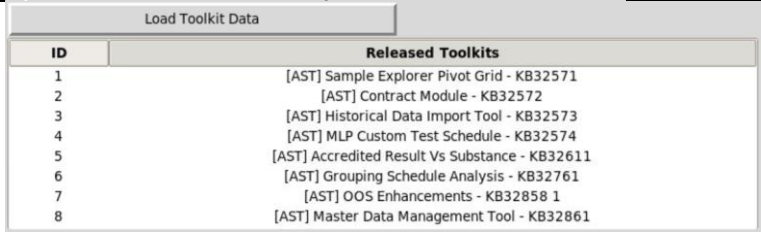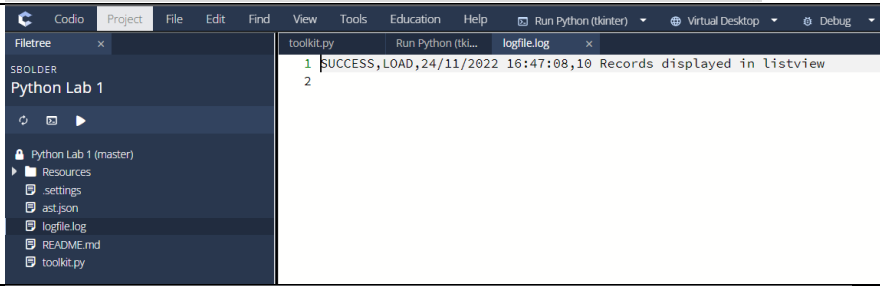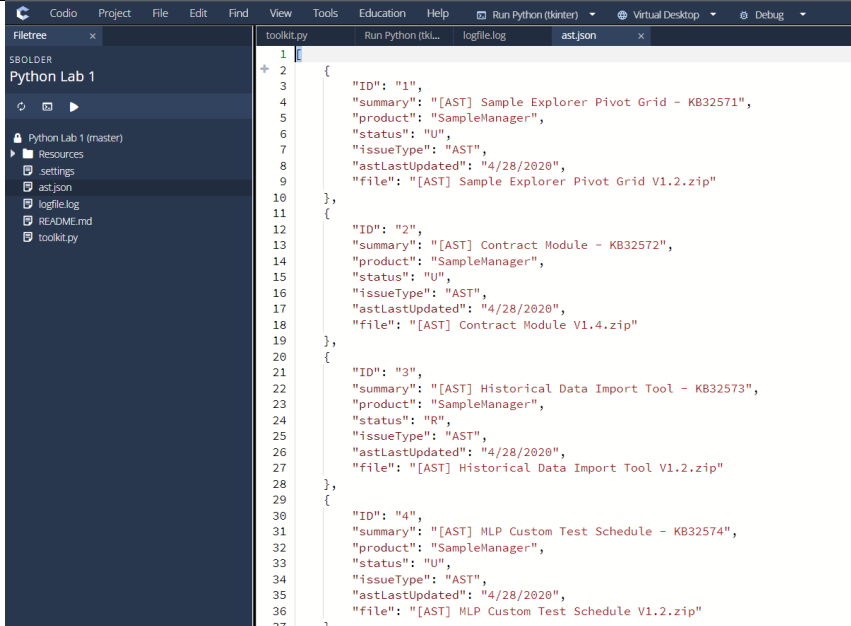|	
001	Application must display ID and summary values of toolkits in a list
002	Application must write a log each time data is loaded to a list
003	Application must display all data for each record
004	Application must be able to write several records
005	Application must allow the update of records
006	Application must allow a record to be marked as deleted
007	Application must be able to restore records from deleted
008	Application must write a log on deletion
009	Application must write a log on restore
010	Application must write a log on insert
011	Application must write a log on update
012	Application must write a log if incorrect number of records is submitted
013	Application must refresh listview after each transaction
014	Application must run on one form
015	Application should only use standard python libraries

Test 1:

Test 1 covers reading data into the application
Requirements: 001, 002, 014, 015

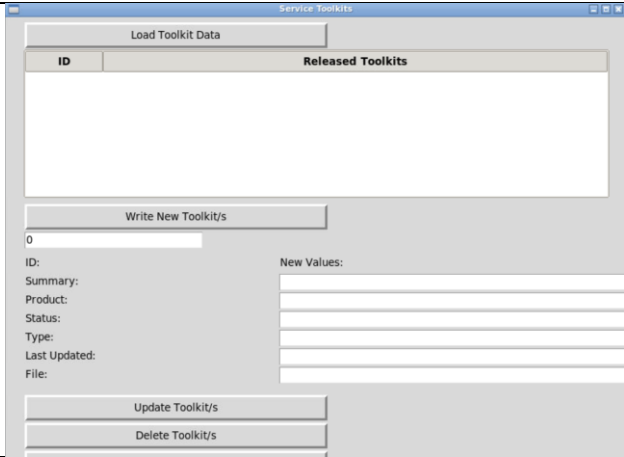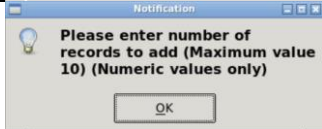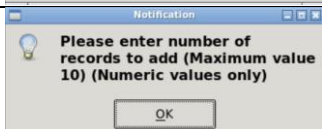| ID	Test Case
1	Read Data A. Load application B. Click 'Load Toolkit Data' button to load data to listview C. Review logfile to check number of records displayed D. Review JSON file to check records match listview data

ID	Step		Result

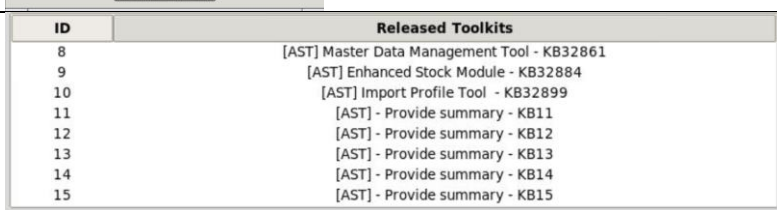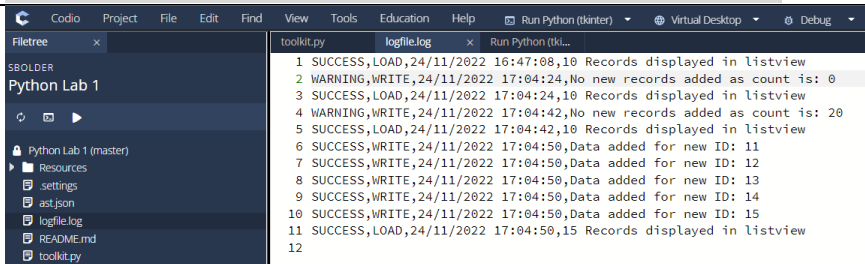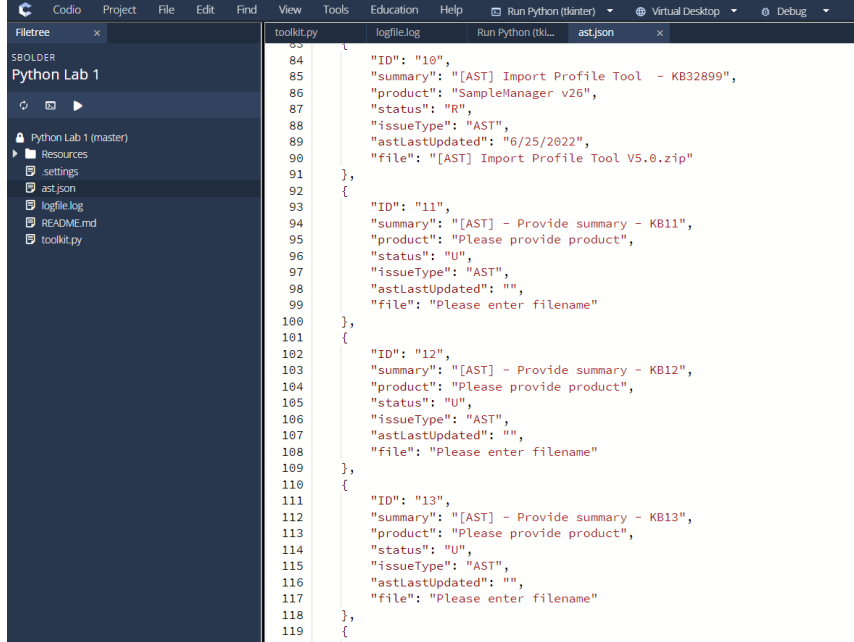| 1	A:		Pass
	B:		Pass
	C:		Pass
	D:		Pass

Test 2:

Test 2 covers inserting new records into the JSON file.
Requirements: 001, 002, 004, 005, 010, 012, 013, 014, 015

ID	Test Case
2	Insert New Data A. Load application B. Click 'Write New Toolkit's' button with default value 0 C. Click 'Write New Toolkit's' button with value > 10 D. Click 'Write New Toolkit's' button with value between 1 and 10 E. Review logfile to check number of records displayed F. Review JSON file to check records match listview data

ID	Step		Result
2	A:		Pass
	B:		Pass
	C:		Pass
	D:		Pass
	E:		Pass
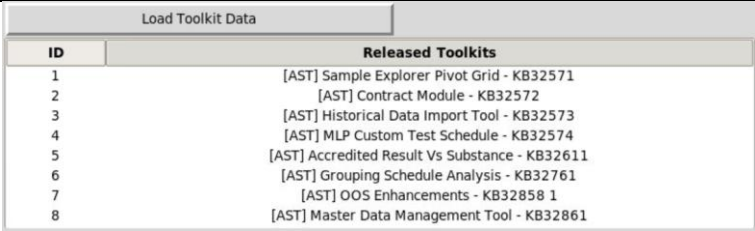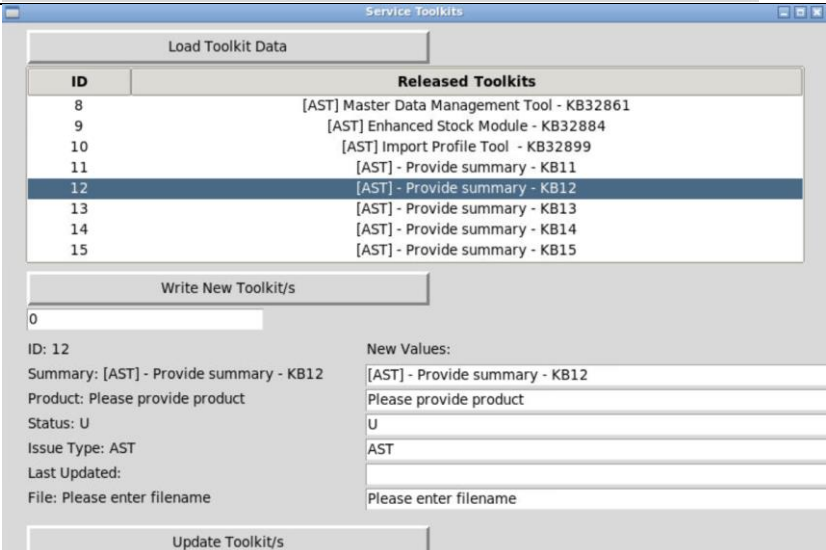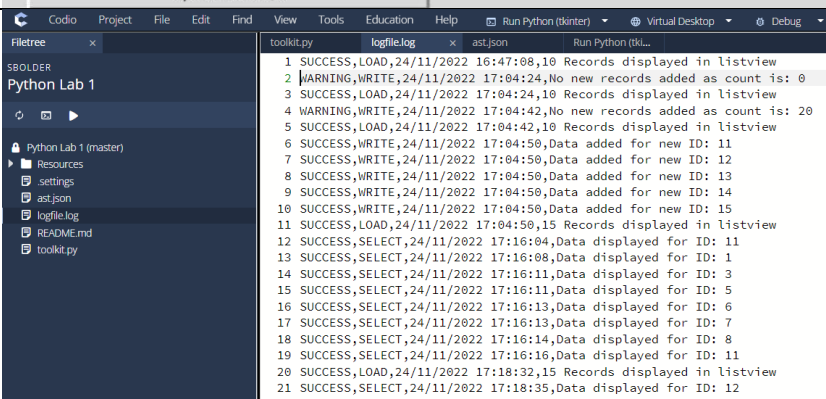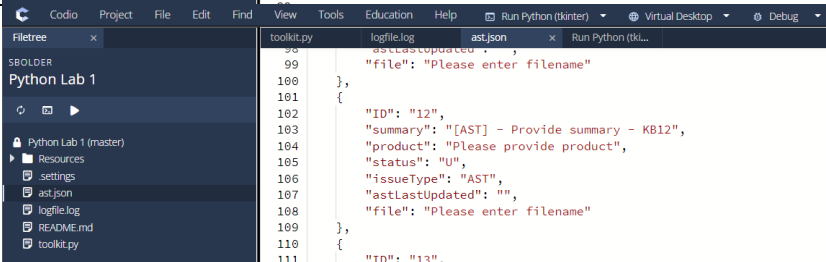
	F:		Pass

Test 3:

Test 3 covers searching records in the JSON file to display the data.
Requirements: 001, 002, 003, 013, 014, 015

ID	Test Case
3	Search Data A. Load application B. Click 'Load Toolkit Data' button to load data to listview C. Click on a row in the listview and check label and input controls display the data for selected record D. Check log file for search entry E. Check JSON to check data on form matches content

ID	Step		Result
3	A:		Pass

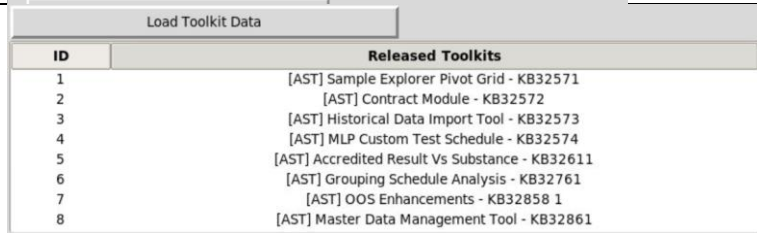|			
	B:		Pass
	C:		Pass
	D:		Pass
	E:		Pass
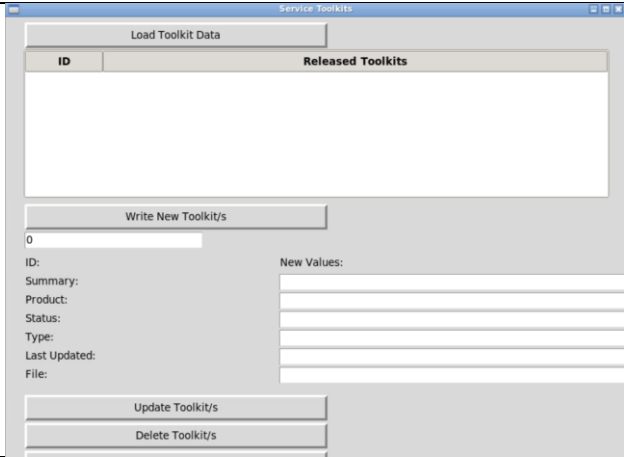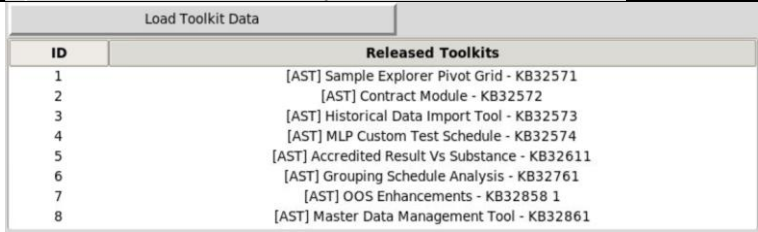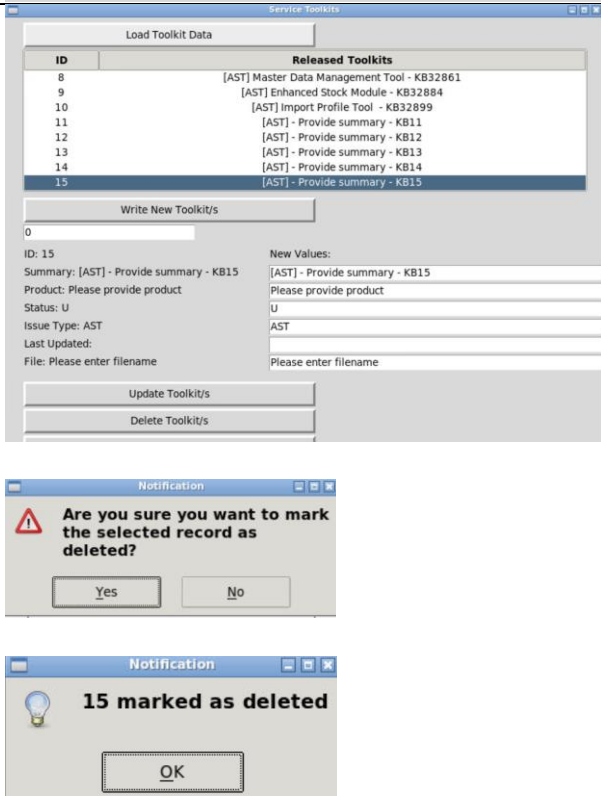
Test 4:
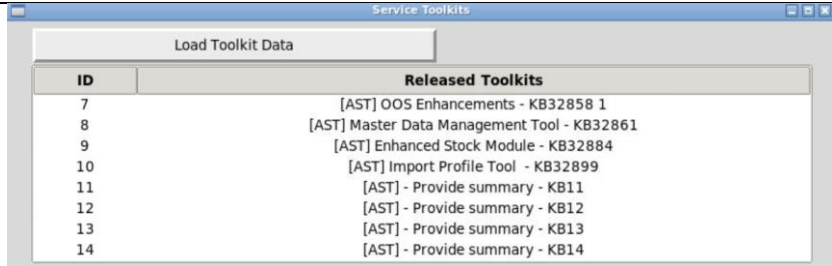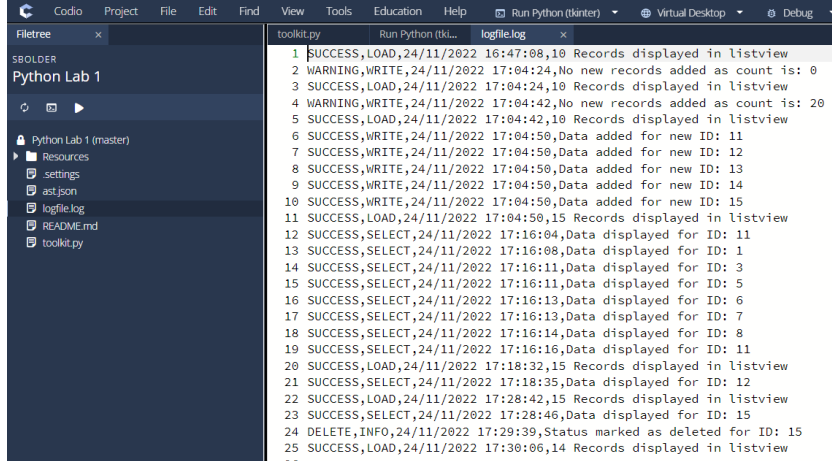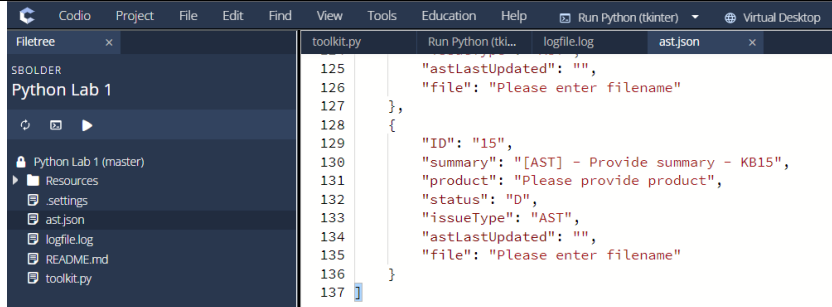
Test 4 covers deleting a record.
Requirements: 001, 002, 005, 006, 008, 013, 014, 015

ID	Test Case
4	Delete Data

A. Load application
B. Click 'Load Toolkit Data' button to load data to listview |

C. Click on a row in the listview and click the 'Delete Toolkit/s' button
D. Check listview does not display the deleted record
E. Check log file for deletion
F. Check JSON to verify record is marked as D

ID	Step		Result
4	A:		Pass
	B:		Pass
	C:		Pass

	D:		Pass
	E:		Pass
	F:		Pass
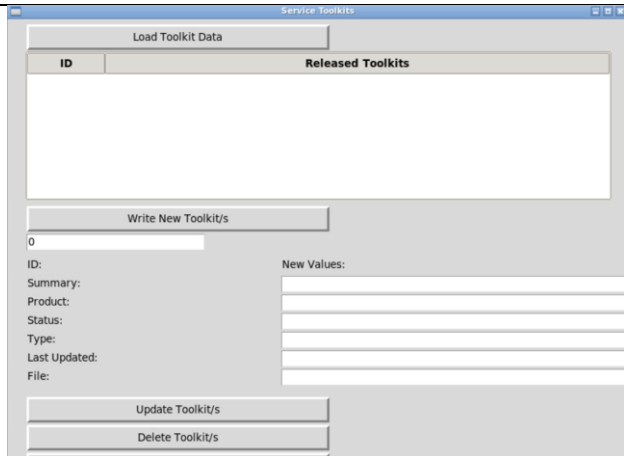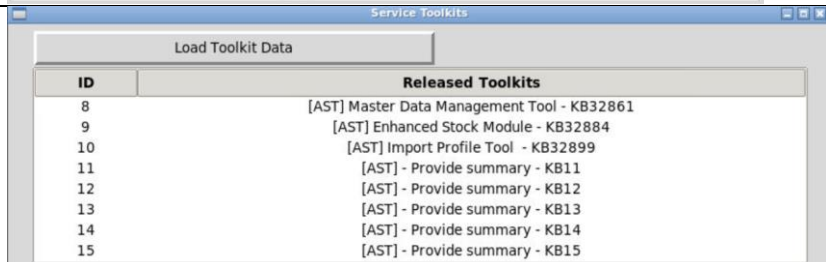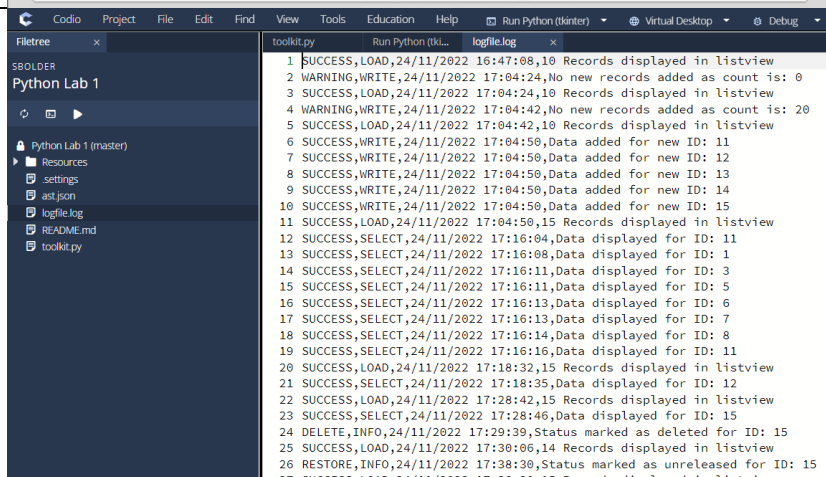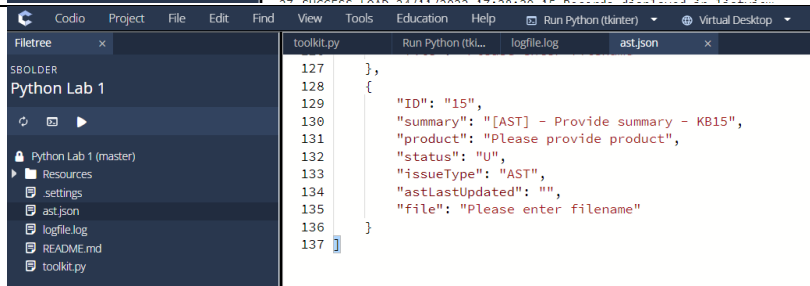
Test 5:

Test 5 covers restoring a deleted record.
Requirements: 001, 002, 005, 007, 009, 013, 014, 015

ID	Test Case
5	Delete Data A. Load application B. Click 'Load Toolkit Data' button to load data to listview C. Click on the 'Restore Deleted Toolkit/s' button and check listview display's previously deleted record D. Check log file for restore E. Check JSON to verify record is marked as U

ID	Step		Result

5	A:		Pass
	B:		Pass
	C:		Pass
	D:		Pass
	E:		Pass

Test 6:

Test 6 covers updating a record.
Requirements: 001, 002, 005, 007, 009, 011, 013, 014, 015

ID	Test Case
6	Updating Data A. Load application B. Click 'Load Toolkit Data' button to load data to listview C. Click on a record in the listview and check the label and input controls display the correct data D. Update the values in the input controls E. Click the 'Update Toolkit/s' button F. Check log file for update G. Check JSON to verify record is updated

ID	Step		Result
3	A:		Pass
	B:		Pass

	C:		Pass
	D:		Pass
	E:		Pass

	F:		Pass

```
1  SUCCESS,LOAD,24/11/2022 16:47:08,10 Records displayed in listview
2  WARNING,WRITE,24/11/2022 17:04:24,No new records added as count is: 0
3  SUCCESS,LOAD,24/11/2022 17:04:24,10 Records displayed in listview
4  WARNING,WRITE,24/11/2022 17:04:42,No new records added as count is: 20
5  SUCCESS,LOAD,24/11/2022 17:04:42,10 Records displayed in listview
6  SUCCESS,WRITE,24/11/2022 17:04:50,Data added for new ID: 11
7  SUCCESS,WRITE,24/11/2022 17:04:50,Data added for new ID: 12
8  SUCCESS,WRITE,24/11/2022 17:04:50,Data added for new ID: 13
9  SUCCESS,WRITE,24/11/2022 17:04:50,Data added for new ID: 14
10 SUCCESS,WRITE,24/11/2022 17:04:50,Data added for new ID: 15
11 SUCCESS,LOAD,24/11/2022 17:04:50,15 Records displayed in listview
12 SUCCESS,SELECT,24/11/2022 17:16:04,Data displayed for ID: 11
13 SUCCESS,SELECT,24/11/2022 17:16:08,Data displayed for ID: 1
14 SUCCESS,SELECT,24/11/2022 17:16:11,Data displayed for ID: 3
15 SUCCESS,SELECT,24/11/2022 17:16:11,Data displayed for ID: 5
16 SUCCESS,SELECT,24/11/2022 17:16:13,Data displayed for ID: 6
17 SUCCESS,SELECT,24/11/2022 17:16:13,Data displayed for ID: 7
18 SUCCESS,SELECT,24/11/2022 17:16:14,Data displayed for ID: 8
19 SUCCESS,SELECT,24/11/2022 17:16:16,Data displayed for ID: 11
20 SUCCESS,LOAD,24/11/2022 17:18:32,15 Records displayed in listview
21 SUCCESS,SELECT,24/11/2022 17:18:35,Data displayed for ID: 12
22 SUCCESS,LOAD,24/11/2022 17:28:42,15 Records displayed in listview
23 SUCCESS,SELECT,24/11/2022 17:28:46,Data displayed for ID: 15
24 DELETE,INFO,24/11/2022 17:29:39,Status marked as deleted for ID: 15
25 SUCCESS,LOAD,24/11/2022 17:30:06,14 Records displayed in listview
26 RESTORE,INFO,24/11/2022 17:38:30,Status marked as unreleased for ID: 15
27 SUCCESS,LOAD,24/11/2022 17:38:30,15 Records displayed in listview
28 SUCCESS,LOAD,24/11/2022 17:39:18,15 Records displayed in listview
29 SUCCESS,SELECT,24/11/2022 17:45:23,Data displayed for ID: 11
30 SUCCESS,SELECT,24/11/2022 17:45:23,Data displayed for ID: 11
31 UPDATE,INFO,24/11/2022 17:47:59,Original values for: 11 - [AST] - Provide summary - KB15 - Please prov
32 UPDATE,INFO,24/11/2022 17:47:59,New updated values for: 11 - [AST] - AWS S3 Connectivity v1 - KB11 - Si
```

| | G: | | Pass |

```json
91      },
92      {
93          "ID": "11",
94          "summary": "[AST] - AWS S3 Connectivity v1 - KB11",
95          "product": "SampleManager 21.1",
96          "status": "R",
97          "issueType": "Module",
98          "astLastUpdated": "24/11/2022",
99          "file": "[AST] - AWS S3 Connectivity v1.zip"
100     },
```