**Final Test Cases for Lab2\_Matthew\_Nischal.py**

**Test Case 1: Invalid Menu Selection (String)**

* **Input:** "hello"
* **Expected Output:** Error Message (Exception Handling)
* **Actual Output:** **Screenshots**

A screen shot of a computer

AI-generated content may be incorrect.

**Test Case 2: Invalid Menu Selection (Negative Number)**

* **Input:** -5
* **Expected Output:** Error Message (Exception Handling)
* **Actual Output:** **Screenshots**

A black screen with white text

AI-generated content may be incorrect.

**Test Case 3: Invalid Menu Selection (Float)**

* **Input:** 2.5
* **Expected Output:** Error Message (Exception Handling)
* **Actual Output:** **Screenshots**

A black screen with white text

AI-generated content may be incorrect.

**Test Case 4: Invalid Menu Selection (Number Too High)**

* **Input:** 99
* **Expected Output:** Error Message (Exception Handling)
* **Actual Output:** **Screenshots**

A black screen with white text

AI-generated content may be incorrect.

**Test Case 5: Menu Selection 3 (Should Display Nothing)**

* **Input:** Select Menu Option 3 before adding any books
* **Expected Output:** No entries found / Display nothing
* **Actual Output:** **Screenshots**

A computer screen shot of a black screen

AI-generated content may be incorrect.

**Test Case 6: Menu Selection 1 (Add a Book)**

* **Input:** Title: "The Catcher in the Rye", Author: "J.D. Salinger", Year: "1957"
* **Expected Output:** "Data added successfully"
* **Actual Output:** **Screenshots**

A screen shot of a computer

AI-generated content may be incorrect.

**Test Case 7: Menu Selection 1 (Try Adding the Exact Same Book)**

* **Input:** Title: "The Catcher in the Rye", Author: "J.D. Salinger", Year: "1957"
* **Expected Output:** "That exact data already exists"
* **Actual Output:** **Screenshots**

A screenshot of a computer

AI-generated content may be incorrect.

**Test Case 8: Menu Selection 2 (Search for Added Book)**

* **Input:** "The Catcher in the Rye"
* **Expected Output:** "Title: The Catcher in the Rye, Author: J.D. Salinger, Year: 1957"
* **Actual Output:** **Screenshots**

A screenshot of a computer program

AI-generated content may be incorrect.

**Test Case 9: Add Another Book and Display Collection**

* **Input:** Add a second book, then select Menu Option 3
* **Expected Output:** Displays all books in the collection
* **Actual Output:** **Screenshots**

A screenshot of a computer program

AI-generated content may be incorrect.

**Test Case 10: Menu Selection 4 (Ends the Program)**

* **Input:** Select Menu Option 4
* **Expected Output:** "Ending program. Have a nice day."
* **Actual Output:** **Screenshots**

A computer screen with white text

AI-generated content may be incorrect.