**Test Cases**

* Test Case 1: Enter a valid name a 16-digit card number, an expiration date formatted correctly, and a 3-digit CVV
* Test Case 2: Leave the name field empty and attempt to process the order.
* Test Case 3: Enter an invalid 15-digit card number and attempt to process the order.
* Test Case 4: Enter a card number with non-numeric characters and attempt to process the order.
* Test Case 5: Enter an invalid 2-digit CVV and attempt to process the order.
* Test Case 6: Enter a CVV with non-numeric characters and attempt to process the order.
* Test Case 7: Enter an invalid expiration date for example "2021/05/12" and attempt to process the order.
* Test Case 8: Enter an empty expiration date and attempt to process the order.

**Results**

* Test Case 1: **Passed**. The order was successfully processed with valid credit card information.

A screenshot of a computer screen

Description automatically generated

* Test Case 2: **Passed**. The program displayed a warning message stating that all fields must be filled.

A screenshot of a computer screen

Description automatically generated

* Test Case 3: **Passed**. The program displayed a warning message indicating that the card number must be 16 digits.

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* Test Case 4: **Passed**. The card number field explicitly disallows any non-numeric characters. (No screenshot necessary)
* Test Case 5: **Passed**. The program displayed a warning message indicating that the CVV must be 3 digits.

A screenshot of a computer

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* Test Case 6: **Passed**. The CVV field explicitly disallows non-numeric characters. (No screenshot necessary.)
* Test Case 7: **Failed**. The order was allowed to go through with an expiration date from 2021

**I added the following if-except statement to validate that the date is in the future and also in the right format:**

if date\_obj <= date.today():  
 messagebox.showwarning("Invalid Expiration Date", "Expiration date must be in the future.")  
 return  
  
except ValueError:  
 messagebox.showwarning("Invalid Expiration Date", "Please enter a valid date in the format YYYY-MM-DD.")  
 return

* Final Result: **Passed**

A screenshot of a computer

Description automatically generated

* Test Case 8: **Passed**. The program displayed a warning message indicating that all fields must be filled in.

A screenshot of a computer screen

Description automatically generated