Homework 3 Write-Up:

Group Members:

- Sam Graler
- Randy Hucker

Instructions:

- Download and unzip the submitted folder "Homework 3" (or open however you'd like)
    - This contains a complete Visual Studio Project, as well as this write-up
    - All necessary .h and .cpp files are included in the project. You should be able to compile and run them like any other Visual Studio Project. The file that has the main function is called "HW3.cpp"

Group Member Contributions:

- Work for this homework was divided evenly:
    - 50% for Randy Hucker
    - 50% for Sam Graler

Test Cases:

Project Name: Homework 3

Sam's Test Case

Test Case ID: Sams_Test_Case
Test Designed by: Sam Graler
Test Priority (Low/Medium/High): Med
Test Designed date: 3/22/2023
Module Name: Homework 3
Test Executed by: Randy Hucker
Test Title: Play Card From Deck
Test Execution date: 3/22/2023
Description: This test plays the top card of the user's deck and checks the number of cards after the turn to verify success / failure

Pre-conditions: User has initiated a game, entered their name, and peeked at their card (or not)
Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Play card alone	Enter "1"	Player card should be compared to computer card, and a winner should be selected	Player wins this round (8 against 5)	Pass	
2	Check length of player's deck	Enter "3"	Player should have 27 cards if they won the previous round, and 25 if they lost	Player has 27 cards	Pass	
3	Check length of computer's deck	Enter "5"	Computer should have 25 cards if the player won the round, but 27 if the computer won	Computer has 25 cards	Pass	

Post-conditions:
The game should resume as normal and the menu of game options will appear.

Project Name: Homework 3

Randy Hucker's Test Case

Test Case ID: Randy's Test Case

Test Priority (Low/Medium/High): Med

Module Name: Pulling from stack

Test Title: **Stack+Deck vs CPU**

Description: Tests the stack addition to the card you pulled

Test Designed by: <Randy Hucker>

Test Designed date: <03/22/2023>

Test Executed by: <Sam Graler>

Test Execution date: <03/22/2023>

Pre-conditions: User has entered their name and started playing/said yes or no to peek

Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/ Fail)	Notes
1	Place a card on the side deck	Press 2	User should have 1 card on their side deck and have finished the round (win or loss)	Continued to the next round after pulling the next card from the top	Pass	Player won and received one new card
2	Check length of side deck	Press 4	Returns the length of the side deck (1)	Returned one for the length of the side deck	Pass	
3	Check length of side deck + length of main deck	Press 3	User should either have 1 more/less card	Since the player won the last round, total number of cards was 27	Pass	
4	Add the card from the side deck to the top card on the deck.	Press 6	The card pulled and the card from the side deck should be added together in total score	The card pulled and the card from the side deck were added together and compared against the cpu's card.	Pass	
5	Three cards should be added to one of the two players	No Test Data	3 cards should be added to a deck	The player won, so three cards were added to the deck to make a combined total of 28	Pass	
6	Check length of side deck + length of main deck	Press 3	User should either have 1 more/2 less cards	Since the player won the last round, total number of cards was 28	Pass	
7	Check length of side deck	Press 4	Returns the length of the side deck (0)	Returned zero for the length of the side deck	Pass	

Post-conditions:

Post round, the game should continue and the list of options should appear for option selection.