## CSCI 3328 Object Oriented Programming in C# Fall 2012 Assignment #6

Instructor: Dr. Xiang Lian Due Date: See the course Web page

Write a program to show a deck of cards, shuffle cards, show shuffled deck, deal to 4 players, display dealt cards, arrange cards by suite, and display arranged cards.

Please start early. This assignment will take some time. Figure out your own way of shuffling cards.

Button Get New Deck: The card names are read from a file and displayed in a list box.

🖳 Shuffling Cards		_ 🗆 ×
Get New Deck	CA C2 C3 C4 C5 C6 C7 C8 C9 C10 CJ CQ CK DA D2 D3 D4 D5 D6 D7 D8 D9 D10 DJ DQ DK HA H2 H3 H4 H5 H6 H7 H8 H9 H10 HJ HQ HK SA S2 S3 S4 S5 S6 S7 S8 S9 S10 SJ SQ SK	
Shuffle		
	Deal Show Hands	Stop
Player 1		
Player 2		
Player 3		
Player 4		

🛃 Shuffling Cards		
Get New Deck	CA C2 C3 C4 C5 C6 C7 C8 C9 C10 CJ CQ CK DA D2 D3 D4 D5 D6 D7 D8 D9 D10 DJ DQ DK HA H2 H3 H4 H5 H6 H7 H8 H9 H10 HJ HQ HK SA S2 S3 S4 S5 S6 S7 S8 S9 S10 SJ SQ SK	
Shuffle	S4 D9 D8 HQ SQ C6 H4 CK S8 C2 DJ CQ H10 HK DA S3 S7 D5 C7 DK C9 CA SA C5 D6 S6 D7 SJ H2 HA C4 D10 S10 CJ C8 SK C10 C3 HJ DQ S2 H5 H8 H9 H6 D4 D3 S5 D2 S9 H7 H3	
	Deal Show Hands Stop	
Player 1		
Player 2		
Player 3		
Player 4		

Button **<u>Shuffle</u>**: The cards are shuffled (abstractly) and displayed in the list box shown here.

Button **Deal**: The shuffled cards are distributed one at a time in a round robin fashion to four players. Players' cards are displayed in the appropriate 3D label boxes.

🛃 Shuffling Cards		
Get New Deck	CA C2 C3 C4 C5 C6 C7 C8 C9 C10 CJ CQ CK DA D2 D3 D4 D5 D6 D7 D8 D9 D10 DJ DQ DK HA H2 H3 H4 H5 H6 H7 H8 H9 H10 HJ HQ HK SA S2 S3 S4 S5 S6 S7 S8 S9 S10 SJ SQ SK	
Shuffle	S4 D9 D8 HQ SQ C6 H4 CK S8 C2 DJ CQ H10 HK DA S3 S7 D5 C7 DK C9 CA SA C5 D6 S6 D7 SJ H2 HA C4 D10 S10 CJ C8 SK C10 C3 HJ DQ S2 H5 H8 H9 H6 D4 D3 S5 D2 S9 H7 H3	
	Deal Show Hands Stop	2
Player 1	S4 SQ S8 H10 S7 C9 D6 H2 S10 C10 S2 H6 D2	
Player 2	D9 C6 C2 HK D5 CA S6 HA CJ C3 H5 D4 S9	
Player 3	D8 H4 DJ DA C7 SA D7 C4 C8 HJ H8 D3 H7	
Player 4	HQ CK CQ S3 DK C5 SJ D10 SK DQ H9 S5 H3	

Button **<u>Show Hands</u>**: A new form is displayed with players cards.

🛃 Show Hands		_ 🗆 🗙
	Arrange Cards	
Player 1	S4 SQ S8 H10 S7 C9 D6 H2 S10 C10 S2 H6 D2	
Player 2	D9 C6 C2 HK D5 CA S6 HA CJ C3 H5 D4 S9	
Player 3	D8 H4 DJ DA C7 SA D7 C4 C8 HJ H8 D3 H7	
Player 4	HQ CK CQ S3 DK C5 SJ D10 SK DQ H9 S5 H3	
	Play Again	

Button <u>Arrange Cards</u>: The cards are re-ordered using a two-dim sort and re-displayed.

🛃 Show Hands		_ 🗆 🗙
	Arrange Cards	
Player 1	C9 C10 D2 D6 H2 H6 H10 S2 S4 S7 S8 S10 SQ	
Player 2	CA C2 C3 C6 CJ D4 D5 D9 HA H5 HK S6 S9	
Player 3	C4 C7 C8 DA D3 D7 D8 DJ H4 H7 H8 HJ SA	
Player 4	C5 CQ CK D10 DQ DK H3 H9 HQ S3 S5 SJ SK	
	Play Again	

Button **<u>Play Again</u>**: This button takes you back to the previous form.

👥 Shuffling Cards		_ 🗆 ×
Get New Deck	CA C2 C3 C4 C5 C6 C7 C8 C9 C10 CJ CQ CK DA D2 D3 D4 D5 D6 D7 D8 D9 D10 DJ DQ DK HA H2 H3 H4 H5 H6 H7 H8 H9 H10 HJ HQ HK SA S2 S3 S4 S5 S6 S7 S8 S9 S10 SJ SQ SK	
Shuffle		
	Deal Show Hands	Stop
Player 1		
Player 2		
Player 3		
Player 4		

Please submit:

- 1. Program listing, and
- 2. The screen captures (as given in the Appendix)

Please submit all files in a compressed \*.zip file.

• Your program should begin with a comment section that would include the following:

PROGRAMMERS NAME:_		
STUDENT ID:		
CLASS:	ASSIGNMENT #:	
DATE DUE:	DATE TURNED IN:	

 Upload the \*.zip file you created to the Blackboard. The subject of the submission must include the following information: [CSCI 3328] [Assignment #] [Your Name Here] [Your Student ID Here]