Programming Exercise 12.3

The Game Of War, v.4.0

Purpose. Learn about objects.

In this exercise, a playing card is to be represented as an object, instead of using two separate variables to track suit and value.

Requirements. Rewrite your War3.java from Exercise 7.7 as War4.java. Modify the program to add an object specification named PlayingCard, with two whole number data members named suit and value. Rewrite the program so that it uses two PlayingCard objects, one for the human player and one for the computer player, instead of the 4 whole number variables used to track suits and values.

Further modify the program to simplify main by moving code blocks into functions. Write a void function to take a PlayingCard object as a parameter, and output its value and suit, like this: Jack of Clubs.

Write a value-returning function named getYesOrNo, to prompt the user for the "Continue? [Y/N]" input. It needs no parameters. It should include the validation loop, moved into it from main. It can return either an int, char, or boolean -- your choice.

Program I/O. Same as Exercise 7.7

Example, with user input in blue:

```
Computer's card is a 2 of Diamonds
Human's card is a 8 of Hearts
--<< Human wins! >>--
Computer wins: 0, Human wins: 1
Continue? [Y/N] y
Computer's card is a 2 of Spades
Human's card is a Ace of Hearts
--<< Human wins! >>--
Computer wins: 0, Human wins: 2
Continue? [Y/N] y
Computer's card is a Queen of Diamonds
Human's card is a 7 of Diamonds
--<< Computer wins! >>--
Computer wins: 1, Human wins: 2
Continue? [Y/N] Q
Continue? [Y/N] n
```