**Assignment 5**

**Stack ADT**

**Array Implementation**

**Description**

Write a Stack class that uses an array for the underlying data structure.

**Class Methods**

Canonical functions – The constructor should take a single parameter that indicates the stacks size.

Push - Pushes its parameter onto the top of the stack.

Pop - Removes and returns the data from the top of the stack

Peek - Returns the element on the top of the stack but does not remove it.

Size – Returns the number of items currently on the stack.

isEmpty – Returns true if the stack is empty.

isFull – Returns true if the stack is full.

**Stipulations**

1. You must use the array class you created in Assignment 1.
2. You must throw exceptions for Underflow and Overflow conditions.