

Assignment 4:

A palindrome is any word, phrase, or sentence that reads the same forward and backward. For example:

Able was I ere I saw Elba
Desserts I stressed
Kayak
abcde edcba

Write a program that uses a stack to determine if a string of characters is a palindrome. This program will ask the user to enter a string, then printout a statement indicating whether or not the string was a palindrome.

Your program should treat all letter characters as lower case. Remember, spaces are characters also.

You may use any data structure you wish to create the stack so long as the stack is implemented and used correctly. Do not use any of classes in the Java API. You may use any of the class files in the wk4.zip file.

Name your demo class (containing the main method) PalindromeDemo.

```
C:\Users\jim\Downloads\HW4>java PalindromeDemo
This program will determine if an entered string is a palindrome.
Enter the string you want to check for palindrome:
Able was I ere I saw Elba
"Able was I ere I saw Elba" is a palindrome

C:\Users\jim\Downloads\HW4>
```