HW 4

Note:
1. For all program assignments, always use comments to explain your program.
2. No copying allowed. If it is found that students copy from each other (in the opinion of the instructor), all of these assignments will receive 0.
3. You should type all the solutions instead hand written.
4. No late submission will be received.
5. Submit only the hard-copy.

Programming

Objectives:
To gain experience with the implementation of Stack and Queue using JAVA programming.
To gain experience with basic Stack and Queue application using JAVA programming.

Documentation:
Explain the purpose of the program with enough detail
Give a description of how to use the program and expected input/output
Explain the purpose of each class you develop in the program.

Programming:
For each method, give the pre and post conditions and invariant, if any
Program execution results (screen shot) according to the requirements given
A hard-copy of the program and documentations

Description of Program:
Write the Java program to implement the application of Recognizing Palindromes (see textbook Page 385 for more details)
Detailed Requirements:
(a) Obtain the input from the user, and output whether the input string is a Palindrome.
(b) Use stack and queue to achieve the judgment.
(c) Provide a reference-based implementation for both the stack and the queue you used.