This document provides the necessary instructions for completing the Week 6 lab exercises.

**Exercise 1: JVM Stack**

Run the JVMStack.java example using the Debug tool in Eclipse. Note the values of local variables and return values from one call to the next. Write the results.

**Exercise 2: ArrayStack**

In this exercise you are going to modify the main method of ArrayStack.java. Create an array stack of String objects. Use a list of names for it. Push the names onto the stack. Use a simple loop to pop the names off the stack.

**Exercise 3: LinkedStack**

Write a main method for the LinkedStack.java example. Populate the stack with a list of String objects. Empty the linked stack by using the pop() method.

**Exercise 4: LinkedQueue**

Write a main method for the LinkedQueue.java example. Populate the queue with a list of String objects. Empty the queue by using the dequeue() method.

**Exercise 5: Queue**

What values are returned during the following sequence of queue operations, if

executed on an initially empty queue? enqueue(5), enqueue(3), dequeue(),

enqueue(2), enqueue(8), dequeue(), dequeue(), enqueue(9), enqueue(1),

dequeue(), enqueue(7), enqueue(6), dequeue(), dequeue(), enqueue(4),

dequeue(), dequeue().

**Exercise 6: Deque**

Write e class that implements the Deque interface. Write a main method for that class to test the operations of a Deque.