Assignment 2:

The code is given as:

Stack stack = new Stack();

while (!q.isEmpty())

stack.push(q.dequeue);

while (!stack.isEmpty())

q.enqueue(stack.pop());

Explanation:

Here stack is the object created to use functions of stack and q is the object created. In while loop, the condition is q is not empty. If we consider queue of elements 5,6,7 and stack of elements 1,2,3,4

As queue is not empty, it enters into while block. Then q.dequeue returns 5,6,7 and gets pushed into stack by stack.push operation. Now stack has 7,6,5,4,3,2,1.

As stack is not empty, it enters into while block. Then stack.pop returns 7,6,5,4,3,2,1 and performs enqueue operations and now q has 1,2,3,4,5,6,7.