```
// Shelley Latreille Exercise 11 Output 1 to N CSIS 1340

/*
This program will ask the user to input a positive whole number greater than
zero. An input dialog box will be used for this input. The number input by the
user will be called n. All numbers from 1 up to n will be output to the screen.
The user will be asked if they would like to re-run the program.
 */
package output.pkg1.to.n.shelley.latreille;

//imports for dialog boxes
import javax.swing.JDialog;
import javax.swing.JOptionPane;

public class Output1ToNShelleyLatreille
{

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args)
    {
        //Declare variable for confirm dialog box
        int response = 0;

        /* A dialog box will appear and inform the user what
            the program does. */
        JOptionPane.showMessageDialog(null, String.format("Output Numbers from "
                + "One to N \n\n\n"
                + "This program will ask you to enter a positive whole number "
                + "greater than zero. \n\n"
                + "After you have input your number, the program will generate "
                + "numbers from one up to the number you entered. \n\n"
                + "The program will display these numbers on the screen. \n\n"
                + "You will then be presented with the option to re-run the "
                + "program or end it. \n\n "));

        //Declare variable for the input dialog box.
        String dialoginput;

        //while loop to ask user if they want to continue the program
        while (response == JOptionPane.YES_OPTION)
        {
            /* An input dialog box will appear and ask the user to
        enter a number.*/
            dialoginput = JOptionPane.showInputDialog("Please enter a "
                    + "number. \n\n"
                    + "Please ensure the number you enter is a positive "
                    + "whole number greater than zero. \n\n");
```

```
            //Declare variable for number input by user and initialize
            int n = Integer.parseInt(dialoginput);

            if (n <= 0)

            {
                //Message to user when zero or number less than zero is entered.
                JOptionPane.showMessageDialog(null, String.format("You "
                        + "have entered " + n + ", which is a number less than "
                        + "or equal to zero. \n\n"
                        + "Please try again. \n\n"
                        + "On your next attempt, please enter a whole number "
                        + "that is greater than zero. \n\n"));

            } else if (n > 0)
            {
                //Declare variables for counter and string builder
                int count = 1;
                StringBuilder sb = new StringBuilder();

                /* while loop when the counter is less than or equal to
                n. n is the number that the user enters.
                 */
                while (count <= n)

                {

                    sb.append(count).append("   ");

                    count++;

                }
                String out = sb.substring(0, sb.length() - 1);
                JOptionPane.showMessageDialog(null, "You have entered "
                        + n + ".\n\n"
                        + "The numbers from 1 to " + n
                        + " are: \n\n" + out + " ");

                {
                    // Confirm dialog box asking user if they would like to
continue.
                    JDialog.setDefaultLookAndFeelDecorated(true);

                    response = JOptionPane.showConfirmDialog(null, "Would you "
                            + "like to enter another number? \n\n"
                            + "If you would like to continue the program, please "
                            + "click on the Yes button. \n\n"
                            + "If you click on the No button or on the X in the "
                            + "upper right corner of the box, "
                            + "this program will end. \n\n", "Provides Option to "
```

```
                            + "Continue or End the Program \n\n",
                            JOptionPane.YES_NO_OPTION,
JOptionPane.QUESTION_MESSAGE);

                    //Result when user clicks on the No Option.
                    if (response == JOptionPane.NO_OPTION)
                    {
                        // Message to user when the No button is pressed.
                        JOptionPane.showMessageDialog(null, String.format("You "
                                + "pressed the No button. \n\n"
                                + "Thank you for using this program. \n\n"
                                + "This program will now end. \n\n"
                                + "Please have a wonderful day! \n\n"));

                        //When user clicks on the Yes button the program loops
                    } else if (response == JOptionPane.YES_OPTION)

                    {

                        //Result when user clicks on the X in the upper right
corner.
                    } else if (response == JOptionPane.CLOSED_OPTION)
                    {
                        //Message to user when the X is clicked on.
                        JOptionPane.showMessageDialog(null, String.format("You "
                                + "clicked on the X to close this "
                                + "dialog box. \n\n"
                                + "Thank you for using this program. \n\n"
                                + "This program will now end. \n\n"
                                + "Please have a wonderful day! \n\n"));

                    }

                }
            }
        }
    }
}
```