

## Laboratory Activity

1. Download or copy the `formatted_console_io_v17.h` file. Remember in your Dev C++ to "Save as type:" "Header Files". Don't let it be saved as a `.cpp` file.
2. Download or copy the `Lab03Activity.cpp` file from WebCampus, this time saving it as a `.cpp` file. Implement the following activities, but compile and run the program after each step to eliminate bugs and observe what happens.
3. Turn on line numbering in your Dev C++. Go to "Tools", "Editor Options", and the "Display" tab. Then check the box next to "Line Numbers". Then select the "OK" icon.
4. Compile and run the program and observe the results. Now look at the code and see if it makes sense to you. Try to figure out what each line in the program does that displays each line in the output. You can open both screens side by side as needed to do this.
5. Change the `PRECISION` constant to 2, and compile, run, and observe the results.
6. On line 45, change `xPos += 2;` to `xPos += 10;`, and observe the results.
7. On line 51, change `yPos += 2;` to `yPos += 10;`, and observe the result.
8. On line 35, change the foreground color (`COLOR_GREEN`) to `COLOR_RED` and observe the results.
9. On line 35, change the background color (`COLOR_BLACK`) to `COLOR_BLUE` and observe the results.
10. Insert the following at line 49 (move the "`// display double value`" down):

```
// enter a double value
xPos += 2;
yPos += 2;
dblVal = promptForDoubleAt( xPos, yPos, "Enter a floating point number: " );
```
11. Run the program and observe the results.
12. Experiment with this program. Also keep it available for later experimentation when you are developing other console-related programs.
13. Ask your TA for help if you have any difficulty with this exercise.