Laboratory 3 Activity Instructions

- 1. Download or copy the formatted_cmdline_io_v10.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 LabO3Activity.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. In the "Global Constants" area, type the following, then compile:

```
const char PIPE = '|';

const int NO_BLOCK_SIZE = 0;
const int ONE_END_LINE = 1;
const int TWO_END_LINES = 2;
const int DECIMAL_PRECISION = 2;

const int INSIDE_NAME_BLOCK_SIZE = 19;
const int INSIDE_AGE_BLOCK_SIZE = 9;
const int INSIDE_GPA_BLOCK_SIZE = 8;
```

4. Under "variable initialization", type the following, then compile:

```
string nameOne = "Susan H. Jones", nameTwo = "Ralph A. Smith";
int ageOne = 24, ageTwo = 22;
double gpaOne = 3.515, gpaTwo = 3.243;
```

5. Under "make vertical lines", type the following, then compile:

```
printEndLines( TWO_END_LINES );
```

6. Under "display the header", type the following, then compile. Note that there are 40 dashes between the pipes on the long line, and then 20, 9, and 9 between the pipes on the divided lines.

7. Under "display data line one", type the following, then compile:

8. Under "display data line two", type the following, then compile:

9. Under "display table bottom line", type the following, then compile:

```
printString( " |-----|", NO_BLOCK_SIZE, "LEFT" );
printEndLines( TWO_END_LINES );
```

10. Under "hold program", type the following:

```
system( "pause" );
```

If you do not complete this in class, it is worth your effort to finish this program on your own.