

# ME-101-Week 3

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## Output formatting - Shown:

`<iomanip>` library allows for the option to send output directly to cout or to a file, to be formatted a diff way.

## Shown:

→ for positive numbers a positive sign displays. (cout << Shown).

## fixed and set precision:

● Default → C++ Shown's max of 6 figures.

ex  $2.8 \rightarrow 2.8$

$1.23456789 \rightarrow 1.23457 \rightarrow$  program rounds 6<sup>th</sup> digit.

Override this by using the command: `{cout << setprecision(#);}`

⇒ If you instead wanted to display a certain # of digits after the decimal point you would instead have to use the command: `{cout << fixed << setprecision(#);}`

↳ Rounding still occurs.

## setw:

⇒ Used for lining up rows of numbers in spaced out cols.

res ⇒ Command: `setw(#)`

#: minimum size of the next output.

if  $\# \leq \text{output} \rightarrow$  no spaces

→  $\text{Spaces} = \# - \text{output}$ .

if  $\# > \text{output} \rightarrow$  Spaces added to left. (can be changed to spaces to right)