A program for writing a simple program

- 1) Make yourself an example or two of input-to-output pairs;
- 2) Using the examples, think:

What are the quantities in play (these will be your variables)? How am I using them to obtain the output from the input?

Write down a rough step-by-step description of the procedure in plain English;

3) Can you easily write the code for each step?

Or do steps need to be broken down into simpler steps?

E.g., ask yourself:

Where do I get the initial values for the variables from?

Do I need variables to store intermediate results?

If so, keep breaking down your steps as much as needed;

- 4) Write the code for one simple step at a time, and debug it;
- 5) Celebrate;