This program now asks for the first fraction, the operation to be performed, then the second fraction. It then does the operations to the two fractions and outputs the answer in reduced form.

Output of the program:

A screenshot of a computer

Description automatically generated

To complete this program, I had to implement the scan\_fraction() function from fig.06.10. It is implemented as follows:

A screen shot of a computer program

Description automatically generated

The outline of the function was copied from fig.06.10, and I added the “nump, &slash, denomp” for reasons stated in the comment on lines 96 and 97.

I also edited the multiply\_fractions() function as follows:

A computer screen shot of a computer code

Description automatically generated

This change was to make the program multiply the fractions, rather than having the numerator and denominator always return as 1.

The final change was to the find\_gcd() function as follows:

A computer screen with numbers and text

Description automatically generated

This entire function was re-written because I could not understand how the authors of the book wanted us to finish the function. This function finds the largest factor of the number that is also a factor of the other number.